

Localization Tips: How to remove voice from the audio track in the video

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Motivation

- Khan academy localization: video voice over
- Some videos have sound effect/music
- We only want to replace the voice
 - Need a voice removed track
- Razmik has already solved this problem

Steps

1. Separate the audio track (as mp3 file) from video (mp4)
2. Use audacity, vocal reduction and isolation tool

Extension: processing many files

- VLC has Lua interface
 - You can script
- Audacity has a macro support
- If you need to process many files, you could automate it.
 - I myself have not tried it. If anyone tried it, please share the information.

Note (but I might be wrong)

- The method is based on Fourier transformation (FT) of the signal
- The suppressing signal is based of the difference of FT of L and R signals with a band pass filter (bpf)
- Thus, the limitation is
 - Works only for stereo signal
 - If the music is monoral, it would be removed