



# FFmpeg Basics: Multimedia handling with a fast audio and video encoder

Frantisek Korbel

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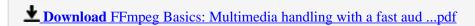
The book will try to make you familiar with FFmpeg tools that are used by Facebook, Google and many other companies. You will learn how to:

- scale, pad, crop, flip, rotate, blur, sharpen and denoise video
- speed up or slow down audio and video
- create sounds with mathematical expressions
- generate refrain of winter song Jingle Bells
- let the computer to read the text with selected voice
- display and record input from your webcam
- record input from microphone or send it to loudspeakers
- convert video to images and images to video
- add static or dynamic text on video
- add, edit or delete file metadata
- preview modified input in 2, 3 or 4 windows
- include a logo or provide Picture in Picture
- simplify repeated tasks with batch jobs
- display input from 2 webcams in one window
- set the bitrate, frame rate, maximum file size and related options
- display FFmpeg help and information about its codecs, formats, protocols, etc.
- use various filters in filterchains and filtergraphs
- encode subtitles directly to the video stream
- join various file formats, modify streams and modify audio channels
- monetize uploads on video sharing websites
- and much more

Book is printed in full color, contains over 100 tables and over 150 images including various diagrams and can be used both like a tutorial and reference. The brief content:

- 1. FFmpeg Fundamentals
- 2. Displaying Help and Features
- 3. Bit Rate, Frame Rate and File Size
- 4. Resizing and Scaling Video
- 5. Cropping Video
- 6. Padding Video
- 7. Flipping and Rotating Video
- 8. Blur, Sharpen and Other Denoising
- 9. Overlay Picture in Picture
- 10. Adding Text on Video
- 11. Conversion Between Formats
- 12. Time Operations
- 13. Mathematical Functions
- 14. Metadata and Subtitles
- 15. Image Processing

- 16. Digital Audio
- 17. Presets for Codecs
- 18. Interlaced Video
- 19. FFmpeg Components and Projects
- 20. Microphone and Webcam
- 21. Batch Files
- 22. Color Corrections
- 23. Advanced Techniques
- 24. Video on Web
- 25. Debugging and Tests



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