FFmpeg Cheatsheet

Overview

FFmpeg is a command-line tool used for recording, converting, and streaming audio and video.

Installation

- [FFmpeg website](#)
- macOS: `brew install ffmpeg`
- Ubuntu/Debian: `sudo apt-get install ffmpeg`
- Windows: [Download the binary](#)

Basic Usage

```
ffmpeg -i input.mp4 output.avi
```

Converts `input.mp4` to `output.avi`.

Input/Output

- `-i` : Specifies the input file.
- `-f` : Specifies the output format.
- `-c` : Specifies the codec to use for the output.
- `-s` : Specifies the frame size for the output.
- `-b` : Specifies the bitrate for the output.
- `-ar` : Specifies the audio sample rate for the output.
- `-ac` : Specifies the number of audio channels for the output.

Filters

- `-vf` : Applies a video filter to the output.
- `-af` : Applies an audio filter to the output.

Examples

```
ffmpeg -i input.mp4 -c:v libx264 -c:a copy output.mp4    # Convert to MP4 using H.264
video codec
ffmpeg -i input.mp4 -vf "scale=720:-1" output.mp4   # Resize video to 720p height
ffmpeg -i input.mp4 -af "volume=2" output.mp4     # Increase audio volume by 2x
ffmpeg -f avfoundation -i "default" output.mp4    # Record video from webcam on
macOS
ffmpeg -i input.mp4 -f mpegts udp://127.0.0.1:1234    # Stream video over UDP
```

Resources

- [FFmpeg website](#)
- [FFmpeg documentation](#)

- FFmpeg Wiki