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## How to merge audio and video file in ffmpeg

I want to merge an audio file (.wav or .au format) with a video file (.mp4 format).

Please suggest me how to achieve this. I want to merge these file to new .mp4 video file. An ffmpeg command would be very welcome.

ffmpeg

edited Jan 18 '15 at 11:48



bummi

1,407 3 10 18

asked May 1 '11 at 7:45



Sandy

557 3 15 23

There's a decent article here that might be helpful too... [cfc.kizzx2.com/index.php/muxing-audio-and-video-with-ffmpeg](http://cfc.kizzx2.com/index.php/muxing-audio-and-video-with-ffmpeg) – Simon East Feb 8 '14 at 2:57

### 5 Answers

#### Merging video and audio, with audio re-encoding

See this example, taken from [this blog entry](#) but updated for newer syntax. It should be something to the effect of:

```
ffmpeg -i video.mp4 -i audio.wav \
-c:v copy -c:a aac -strict experimental output.mp4
```

Here, we assume that the video file does not contain any audio stream yet, and that you want to have the same output format (here, MP4) as the input format.

The above command transcodes the audio, since MP4s cannot carry PCM audio streams. You can use any other desired audio codec if you want. See the [AAC Encoding Guide](#) for more info.

If your audio or video stream is longer, you can add the `-shortest` option so that ffmpeg will stop encoding once one file ends.

#### Copying the audio without re-encoding

If your output container can handle (almost) any codec – like MKV – then you can simply copy both audio and video streams:

```
ffmpeg -i video.mp4 -i audio.wav -c copy output.mkv
```

#### Replacing audio stream

If your input video already contains audio, and you want to replace it, you need to tell ffmpeg which audio stream to take:

```
ffmpeg -i video.mp4 -i audio.wav \
-c:v copy -c:a aac -strict experimental \
-map 0:v:0 -map 1:a:0 output.mp4
```

The `map` option makes ffmpeg only use the first video stream from the first input and the first audio stream from the second input for the output file.

edited Jul 20 '16 at 13:33



slhck

129k 38 333 372

answered May 1 '11 at 9:53



Patrick Georgi

1,396 8 6

I tried it but ffmpeg is freezing while merging – Sandy May 1 '11 at 11:41

4 I don't think mp4 containers can have wav audio streams. Try `ffmpeg -i audio.wav -i video.mp4 -acodec copy -vcodec copy -f mkv output.mkv` – Luke Mar 12 '13 at 23:29

I am using this and it is replacing the original audio from the input audio. What if I want to merge input audio with the audio of input video? – Iqbal Malik Jan 31 '14 at 7:00

Very sweet command lines... – [Chandra Nakka](#) Sep 3 '14 at 4:37

Great, I used `ffmpeg -i video.mp4 -i audio.wav -c:v copy -c:a aac -strict experimental output.mp4` to merge MP3 with Wav file...=> mp4 5 minutes, rendered 30 seconds..Thanks – [sonida](#) May 24 '15 at 18:55



Since I am not allowed to write comments to the first answer with my reputation, an addendum here, because I had this problem when encoding webms.

**If your audio stream is for example longer than the video stream**, you have to cut it or otherwise you will have the last video frame as a still image and audio running.

To cut either stream, you can use `-ss [hh:mm:ss] -t [ss]` before each of the `-i "file.ext"`.

`-ss [...]` will define the starting point to cut

`-t [...]` will define the length of the segment in seconds

Example:

```
ffmpeg.exe -ss 00:00:10 -t 5 -i "video.mp4" -ss 0:00:01 -t 5 -i "music.m4a" -map 0:v:0 -map 1:a:0 -y out.mp4
```

answered Jan 10 '15 at 1:11


 [user136036](#)  
166 2

You can also just use `-shortest` to cut the end. – [nyuszika7h](#) Mar 25 '16 at 15:22

This actually worked for me :

```
ffmpeg.exe -i AudioT.m4a -i VideoT.mp4 -acodec copy -vcodec copy muxed.mp4
```

answered Mar 5 '15 at 15:29

 [Ronald Andrade](#)  
33 4

its partially working for me, not working for all inputs, some resulting input videos remains same in the output  
– [Narendra DroidWorm](#) Sep 24 '16 at 11:13

Try using mencoder (Yes it is ffmpeg based, but you never know). I use the `-audiofile` argument. I generally use ffmpeg, though, so take this advice with a pinch of salt.

And, if you use Windows, Mediacoder (not open source anymore sadly) works... its basically a frontend for a lot of gnu encoders and a few non-free ones.

answered Mar 12 '13 at 22:47

 [Wyatt8740](#)  
606 3 10

-open command prompt (windows+r ->cmd->enter)

-then go to inside the folder where you have audio and video file

apply this cmd

```
ffmpeg -i "videoFile.mp4" -i "audioFile.mp3" -shortest outPutFile.mp4
```

Enter....you will get a new file named outPutFime.mp4 (a merged file of audio and video)

edited Nov 3 '15 at 0:28

 [mivk](#)  
1,291 12 15

answered Apr 16 '15 at 7:18

 [UniCoder](#)  
19 1

2 It's really not necessary to describe how to use the command line here. It's pretty much implied that users will be able to figure that out. Especially since the asker specified FFmpeg. All the same, the `-shortest` tag is very nifty. Much simpler than in [@user136036's](#) answer. – [Kat](#) May 14 '15 at 17:08

3 This will re-encode everything, which is probably not what is wanted. – [mivk](#) Nov 2 '15 at 22:00

[adaptivesamples.com/how-to-install-ffmpeg-on-windows](#) – [UniCoder](#) Dec 8 '16 at 12:24

'ffmpeg' is not recognized as an internal or external command, – [UniCoder](#) Dec 8 '16 at 12:24

