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### Topic

ffmpeg How-To Guide

## Description

Write a guide with screenshots that explains how to use the command-line program ffmpeg to convert a video from one format to another. Include a brief explanation of the video formats you have chosen and be sure to list out user requirements.

### References

Matroska Media Container Homepage. (n.d.). Retrieved September 13, 2020, from <a href="https://www.matroska.org/index.html">https://www.matroska.org/index.html</a>

Ffmpeg Documentation. (n.d.). Retrieved September 13, 2020, from <a href="https://ffmpeg.org/ffmpeg.html">https://ffmpeg.org/ffmpeg.html</a>

Supported Video Formats. (n.d.). Retrieved September 13, 2020, from <a href="http://img.movavi.com/online-help/videoeditor/8/supported\_video\_formats.htm">http://img.movavi.com/online-help/videoeditor/8/supported\_video\_formats.htm</a>

Premiere Pro supported file formats. (n.d.). Retrieved September 13, 2020, from <a href="https://helpx.adobe.com/premiere-pro/using/supported-file-formats.html">https://helpx.adobe.com/premiere-pro/using/supported-file-formats.html</a>

# How to Convert a Video from MKV to MP4 using ffmpeg

#### Requirements:

- Windows 10 operating system
- ffmpeg (https://ffmpeg.org/download.html)
- Experience with Command Prompt

Video editing is a popular hobby and there is no shortage of software you can use to edit videos. Most mainstream editing software supports a large range of video formats, but there is one popular format that is not widely supported: Matroska (.mkv). Matroska is an open-standards multimedia container format and it is popular because it is free to create and modify .mkv files. Because it is a newer format than some popular containers such as .avi or .mp4, support is still being added to major programs.

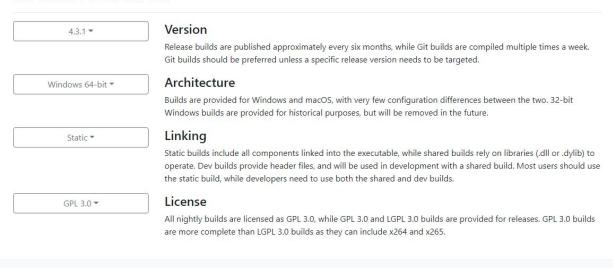
Today I will be showing you a quick and convenient way to convert your .mkv videos to .mp4 format so you can open them in your video editor of choice!

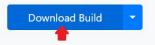
1. Go to the ffmpeg Downloads page (<a href="https://ffmpeg.org/download.html">https://ffmpeg.org/download.html</a>) and download the latest Windows build



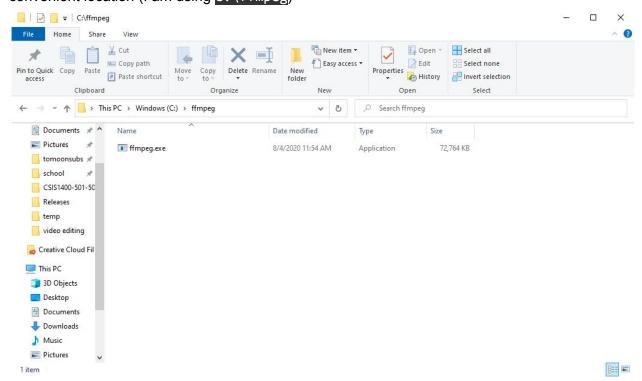
# **FFmpeg Builds**

FFmpeg is the leading multimedia framework to decode, encode, transcode, mux, demux, stream, filter and play. All builds require at least Windows 7 or Mac OS X 10.10.

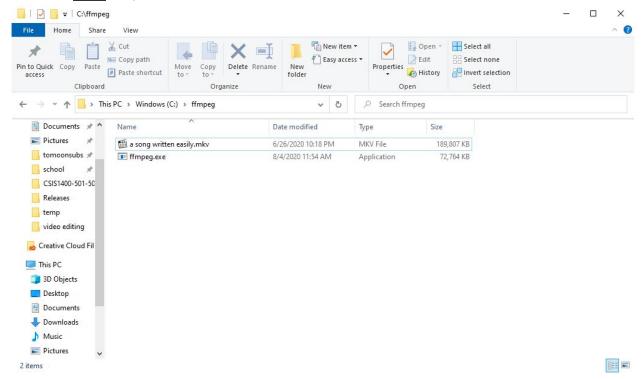




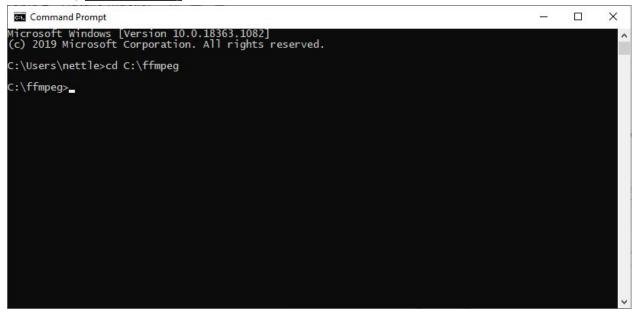
Name ffmpeg-4.3.1-win64-static.zip Size 75.81 MB Modified Aug 4, 2020 10:34 AM 2. Open the zip file and locate ffmpeg.exe in the bin folder. Extract this file to a convenient location (I am using C:\ffmpeg)



3. Move the .mkv file you want to convert to this folder



4. Open Command Prompt (Type cmd in the Windows search bar) and navigate to your folder using cd C:\ffmpeg



5. Use the dir command to verify that ffmpeg and your video are located in the current folder

6. We will be using a simple ffmpeg command to convert the video:

```
ffmpeg -i "a song written easily.mkv" -c:a copy -c:v copy "a song
written easily.mp4"
```

```
called "ffmpeg"

name of the original "input" file

ffmpeg -i "a song written easily.mkv" -c:a copy -c:v copy "a song written easily.mp4"

input flag shows what file

audio/video codec flags using "copy" option

is being sent to ffmpeg

tell the program to copy the streams instead of rewriting them
```

7. After executing the command, you should see a wall of scrolling text appear in the command-line window. This means the conversion worked! If you run into an error, double-check the command and make sure nothing was typed incorrectly

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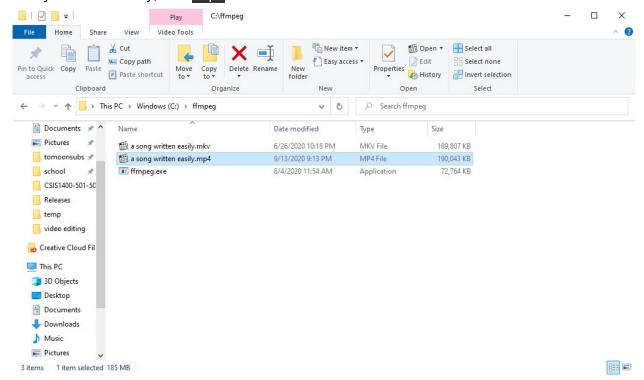
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JOR. BRAND : isomiso2avc1mp41

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JORER : JORE
                                             adata:
ANDLER.NAME : VideoHandler
NCODER : Lavc58.82.100 libx264
URATION : 00:03:36.320000000
eam #0:1: Audio: aac (LC), 48000 Hz, stereo, fltp (default)
adata:
                                                 ANDLER NAME
                                                          a:
_BRAND : isom
_VERSION : 512
TIBLE_BRANDS: isomiso2avc1mp41
ker : LavfS8.45,100
am #0.0: Video: h264 (High) (avc1 / 0x31637661), yuv420p(progressive), 1920x1080 [SAR 1:1
]], q=2-31, 59.98 fps, 59.98 tbr, 16k tbn, 1k tbc (default)
                                                                             a:
RE_NAME : VideoHandler
ER : Lavc58.82.100 libx264
ION : 00:03:356.320000000
#0:1: Audio: aac (LC) (mp4a / 0x61347060), 48000 Hz, stereo, fltp (default)
                                                                                                                                                                : SoundHandler
: Lavc58.82.100 aac
: 00:03:36.319000000
                                                            #0:0 -> #0:0 (сору)
#0:1 -> #0:1 (сору)
                                     ideo:185394kB audio:4246kB subtitle:0kB other streams:0kB global headers:0kB muxing overhead: 0.
11751%
 :\ffmpeg>_
```

8. Now you have a shiny, new .mp4 video!



This is only one of many ways to convert a video from .mkv to .mp4, but an explanation of all the different settings and options is outside of the scope of this tutorial.

Thank you for reading!