**Different video file formats**

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| **File Types** | **What they are** | **Where they are used (examples)** |
| **.MKV** | They are a container format that can store audio, video, and subtitles in the same file.  It is open source and free. | Short clips, films, and tv shows as they have everything in one file, video, audio, and subtitles. |
| **.AVCHD** | Acronym of advanced video coding high definition.  Join developed by Sony and Panasonic to be used in their recorders.  Used for digital recording/playback of high definition videos. Acceptable for professional use. | Mainly used in video recorders.  Can be burned directly on to DVDs and Blu-Rays. |
| **.AVI** | Acronym for Audio Video Interleave.  Commonly used for storing video, developed by Microsoft, and audio in a single file.  Usually less compressed than other file types such as MOV or MPEG. | Can be burned on to DVDs and Blu-Rays.  It is the standard format for windows machines. |
| **.WMV** | Similar to ASF files, uses Microsoft advances systems format. Can have the file extension MKV or AVI.  Like WMA, windows media audio, files but stores video not audio. | One of the most common formats for storing video in Windows |
| **.MOV** | It is a commonly used container created by Apple but can be used on mac or windows.  It can store video, audio, timecode, and text.  Can be converted to a MP4 using VLC.  QuickTime file. | Used for storing videos. |
| **.QT** | Apple QuickTime movie files.  Can contain views, animations, and vr content.  They are often compressed. Used on Mac and Windows. | Creating, editing, publishing, and viewing multimedia files for apple’s QuickTime player.  Can be streamed online. |
| **.FLV** | Made of a header, audio, video, and metadata.  Can be viewed on most OSs, except iOS, through Adobe Flash Player and internet browser plugins. | Used for animations and interactive content onto webpages. |
| **.SWF** | Stands for Small Web Format.  Contains videos and vector image animations, as well as sound. | Used for efficient delivery of video/audio on webpages.  Can be viewed on a web browser with the Flash Player plugin. |
| **.MP4** | Short for MPED-4 Part 14.  Compressed container format that can contain video, audio, and subtitles  Based off of the QuickTime file format that .MOV and QT files use. | Used to store movie or video clips. Used to distribute media from the iTunes Store and by a lot of media streaming platforms. |
| **File type I will use when filming with explanation why** | .MOV. | It is the file type that my camera records in. |
| **File type I will use to export the final product with explanation why** | .MOV. | |

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| **Formats** | **What they are** | **Where they are used (examples)** |
| **PAL** | A way to encode colour.  It was susceptible to degradation in colour due to rough conditions. | The colour encoding system used by DVD players and TV in Europe, most of Asia, most of Africa, and some of South America. |
| **NTSC** | A colour encoding system. | Used by DVDs.  Used to be used by broadcasted tv in North and South America and Japan. |
| **HD** | It is higher resolution and quality than SD.  It has a 19x9 aspect ratio. | The standard video format used in most broadcast video. |
| **Format I will use to export the final product with explanation why** | HD | |

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| **Aspect ratio** | **What they are** | **Where they are used (examples)** |
| **360p** | 480x360 pixels | When that is the max resolution of the video capture device or the max speed to play back the video if it is on a streaming service.  They are just an improvement on the previous ratio so the quality will increase but also the data needed as you go down the list. |
| **480p** | 858x480 pixels  SD |
| **720p** | 1280x720 pixels |
| **1080p** | 1920x1080 pixels  HD |
| **P/I** | P stands for progressive screening, from CRT TV’s, which means that the image is redrawn every second.  I stands for interlaced, that each frame only alternate lines are drawn, then on the next frame, the other lines are drawn. The vertical resolution is therefor halved. | |
| **Aspect Ratio I will use to export the final product with explanation why** | 1080p the best resolution that my camera can record. | |

**MKV**

[**https://fileinfo.com/extension/mkv#:~:text=MKV%20files%20are%20typically%20used,%2C%20TV%20shows%2C%20and%20movies.&text=The%20Matroska%20multimedia%20container%20format%20is%20open%20source,originally%20released%20in%20December%202002**](https://fileinfo.com/extension/mkv#:~:text=MKV%20files%20are%20typically%20used,%2C%20TV%20shows%2C%20and%20movies.&text=The%20Matroska%20multimedia%20container%20format%20is%20open%20source,originally%20released%20in%20December%202002)**.**

[**https://www.howtogeek.com/200736/what-is-an-mkv-file-and-how-do-you-play-them/**](https://www.howtogeek.com/200736/what-is-an-mkv-file-and-how-do-you-play-them/)

**AVCHD**

[**https://fileinfo.com/extension/avchd**](https://fileinfo.com/extension/avchd)

[**https://www.movavi.com/learning-portal/avchd-vs-mp4.html#:~:text=File%20Size,264%2FAVC**](https://www.movavi.com/learning-portal/avchd-vs-mp4.html#:~:text=File%20Size,264%2FAVC)**.**

**AVI**

[**https://www.lifewire.com/avi-file-2619737#:~:text=Standing%20for%20Audio%20Video%20Interleave,used%20to%20store%20multimedia%20data**](https://www.lifewire.com/avi-file-2619737#:~:text=Standing%20for%20Audio%20Video%20Interleave,used%20to%20store%20multimedia%20data)**.**

**WMV**

[**https://www.lifewire.com/wmv-file-2622399**](https://www.lifewire.com/wmv-file-2622399)

**MOV**

[**https://fileinfo.com/extension/mov**](https://fileinfo.com/extension/mov)

**QT**

[**https://file.org/extension/qt#:~:text=Files%20that%20contain%20the%20.,clips%2C%20and%20other%20multimedia%20files**](https://file.org/extension/qt#:~:text=Files%20that%20contain%20the%20.,clips%2C%20and%20other%20multimedia%20files)**.**

**FLV**

[**https://windowsfileviewer.com/open/flv\_files#:~:text=FLV%20files%20are%20Flash%20Video,programs%20with%20FLV%20file%20support**](https://windowsfileviewer.com/open/flv_files#:~:text=FLV%20files%20are%20Flash%20Video,programs%20with%20FLV%20file%20support)**.**

**SWF**

[**https://whatis.techtarget.com/fileformat/SWF-Object-ShockWave-Flash**](https://whatis.techtarget.com/fileformat/SWF-Object-ShockWave-Flash)

**MP4**

[**https://fileinfo.com/extension/mp4**](https://fileinfo.com/extension/mp4)

**PAL and NTSC**

[**https://learn.corel.com/blog/ntsc-vs-pal-what-are-they-and-which-to-use/#:~:text=What%20is%20NTSC%20Format%3F,and%20most%20of%20South%20America**](https://learn.corel.com/blog/ntsc-vs-pal-what-are-they-and-which-to-use/#:~:text=What%20is%20NTSC%20Format%3F,and%20most%20of%20South%20America)**.**

**HD**

[**https://www.andrew.cmu.edu/user/lshea/2.Tech\_PDFs/Pixel\_Fun\_Aspect-NonSquare.pdf**](https://www.andrew.cmu.edu/user/lshea/2.Tech_PDFs/Pixel_Fun_Aspect-NonSquare.pdf)

**360-1080p**

[**https://www.quora.com/What-are-these-240p-360p-480p-720p-1080p-units-for-videos-Whats-the-basic-idea-behind-it**](https://www.quora.com/What-are-these-240p-360p-480p-720p-1080p-units-for-videos-Whats-the-basic-idea-behind-it)