

Lesson 9: Exporting your Sequence

Overview:

This lesson will teach you how to export your photos or video footage from your editing software to a file ready for upload to One Day on Earth.

Skills Taught: writing, technology, media, math, history

Goals: Students will export their final cut.

What you will need: A computer connected to the internet, with editing software that has the appropriate amount of space for digital storage, an external hard drive to store footage and or photos.

Materials: digital slideshow, worksheet

Prep: read lesson, download and watch slideshow

Class time: Exporting a sequence always takes a lot of time. For example if you created a 5 minute edit, it can take 15 or more minutes to export it.

Activities:

Export sequences

Vocabulary & Terminology:

Exporting

Compression



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Exporting your Edited Sequence

Congratulations on having completed a sequence from footage that you shot on your day of filming. Now you can begin the exporting process that will transfer your sequence into a video file that you can upload to the One Day on Earth website.

Video Compression

Video Compression refers to reducing the quantity of data used to to digitally store your video files. Compression is achieved through the use of software called Codecs (short for compression/decompression.)

Good codecs will drastically reduce the amount of digital information needed to signify an image (i.e. the file size), while maintaining a high image quality and smooth playback. You will have many codecs to choose from when exporting. In order to keep your file under 500 megabytes you will want to select one that compresses the information into a small size so that it is easy to upload and store. We recommend using H.264 as it produces small, high image quality files that are optimized for web playback.

The following list is a comparison of some common codecs based on the amount of data they need to store one second of footage. Find more information about exporting at: <http://vimeo.com/forums/topic:3671>

Codec	File Size
DV(25) HDV (1080i)	3.6 MB/sec.
DVCPRO 50	7.2 MB/sec.
DVCPRO HD (1080i60) DVCPRO HD (720p60)	14.4 MB/sec.
DVCPRO HD (720p24)	5.8 MB/sec.
Uncompressed SD video	24 MB/sec.
Uncompressed 8-bit video 1080 29.97i HD video	124 MB/sec.
Uncompressed 10-bit video 1080 29.97i HD video	166 MB/sec.
H.264	The size of an H.264 is variable, and depends on the bitrate. However, files tend to be smaller than many other formats while maintaining very high image quality. To find out more about H.264, we recommend you read: http://www.vcodex.com/h264overview.html

Watch your Video

Now you have a video file that contains your final sequence. Congratulations!!! You've accomplished the challenging task of making a video.

Open your file and watch it at various sizes, verifying the quality of the image. You are also checking that your exported video contains all of the media that was in your sequence, and that it plays back properly. It is not uncommon during the export of a video to have a shift in the media as it transposes itself to another location. If there is a technical problem--sound issue, skipping images, missing frames, "media offline"--you may need to check your sequence to see if any media is missing or re-export your sequence using a different setting.

TIP: Close all other computer applications when exporting.

