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I understand this policy and agree to its terms; I hereby affirm that I will not plagiarize any answers in this course.

How are MIDI files different from MP3 files for the same song?

1 point

MIDI is a file that records music and controls the notes of each instrument to use on specific software. MP3 File format is used for storing audio files recording of the song.

What do we mean when we use the terms "sample rate" and "bit depth" in an audio context?

1 point

These terms are used to talk about the quality of the audio files. The Sample rate is the number of times per second to take a digital snapshot and the Bit depth is the number of bits used for these snapshots.



When might you want to use a GIF instead of a JPEG?

1 point

When I would like to do simple animation like a video containing few images.

When might you want to use a JPEG instead of a GIF?

1 point

When I would like to do something only with the image, having high quality and smaller file size.

Consider the GIFs below.

French Flag



German Flag



Let's assume that these images are the same resolution -- 300 pixels by 200 pixels, and both are static (non-video/non-looping) GIFs. Nevertheless, it turns out that the German GIF is smaller (i.e., fewer bytes) than the French GIF. Hypothesize why that might be. 1 point

Because of the image compression German Flag has three colors on horizontal being the lossless compression easier than the French Flag has three colors on vertical.

In the context of RGB color, what is ff00ff, most likely? 1 point

Magenta color. most likely a Pink.

Keep in mind that "1-bit color" connotes two colors, black and white.

If an image supports "8-bit color," (roughly) how many colors does it support? 1 point

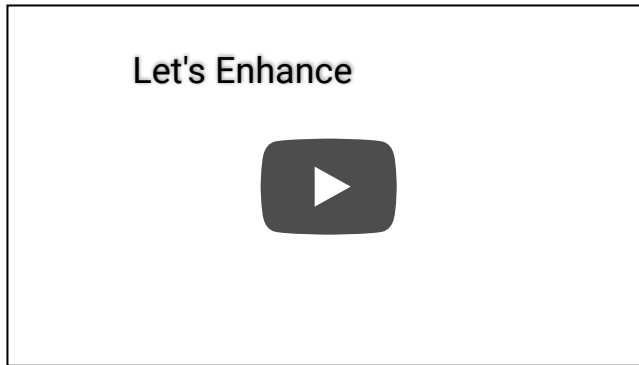
256

If an image supports "24-bit color," (roughly) how many colors does it support? 1 point

16700000



Consider the video below.

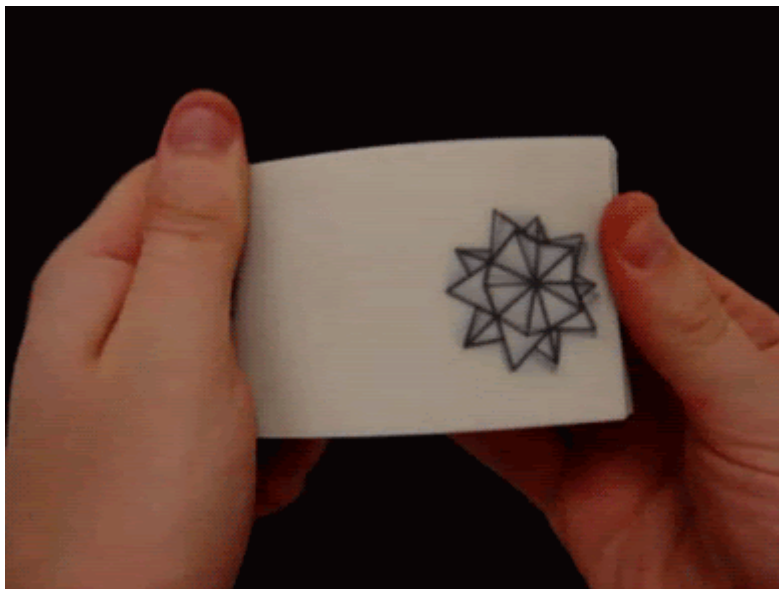


Why does making an image bigger not make it clearer?

1 point

Because the original resolution is lower. Making the image bigger would see the image pixels.

Consider the childhood "flip book" below, each of whose pages has a slightly different drawing of a shape.



In what way is a childhood "flip book" like a digital video?

1 point

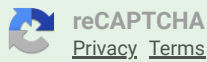
Video formats are just a bunch of images shown quickly in succession to create the illusion of motion, as a flip book. Using algorithms and math helps us going to one frame to another.

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