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Introduction to video frames I, P, B



Abdullah Farwees - Video Audio Software Engineer · [Follow](#)

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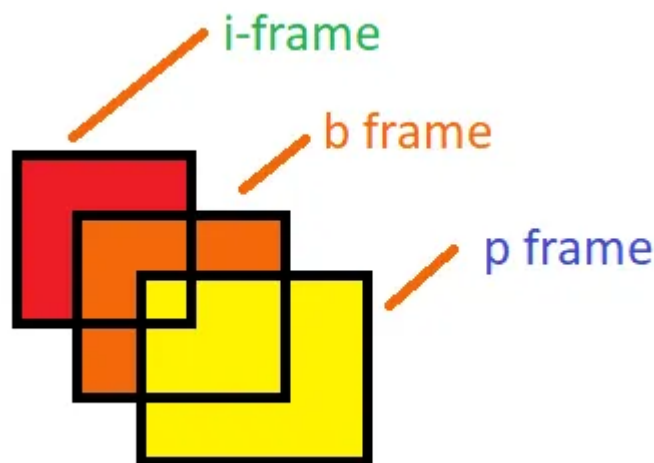
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In this article, We are explaining the video frames as simple as possible for newbie in the multimedia technology. We tried in a simple English for the beginners to understand.

All video frames are either encoded to I frame, P frame or B frame.



Above picture depicts the sequence of the all the frames

I-frame: An independent frame called “intra-frame”. This frames are not dependent on any other frame. I frame is always the first picture of the video sequences. Also, It act as a key frame and has the static picture.

P-frame: predictive coding frame. It represent the difference between the current frame and the previous frame(I frame or another P frame). Comparing to the i-

frame, p-frames occupy lesser bits.

B-Frame: Bi-directional predictive coding frame. It holds the information of differences between the previous frame, current frame and subsequent frames. comparing to other frames, B-frame compression rate is higher !.

Below shows the arrangement of frames in the video data.

I B B B B B P P P I B B B P P P P I

Pro tip: If you are planning to take a thumbnail or trying to save the frames from your favorite video, Always take the I frame picture which are weighs more than other frames in term of quality !.

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Written by Abdullah Farwees - Video Audio Software Engineer

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Multimedia developer and media stream enthusiast, Happy to connect -
<https://www.linkedin.com/in/afarwees/>

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FFmpeg GUI

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H264/H265/YUV



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The screenshot shows a file manager window with a list of log files. Overlaid on the list is the text "Kern.log syslog files are HUGE" in a large, white, serif font. The file list includes:

File Name	Size	Modified
kern.log	2.2 kB	11:...
kern.log.1	659.7 kB	10:...
kern.log.2.gz	1.1 kB	16 N...
kern.log.3.gz	27.3 kB	31 C...
lastlog	18.7 MB	12 C...
php7.4-fpm.log	185 bytes	10:...
php7.4-fpm.log.1	5.2 kB	Yesterd...
php7.4-fpm.log.2.gz	475 bytes	15 N...
php7.4-fpm.log.3.gz	334 bytes	27 C...
php7.4-fpm.log.4.gz	654 bytes	22 C...
syslog	62.0 kB	11:...



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syslog, Journal and kern.log files size are huge !.

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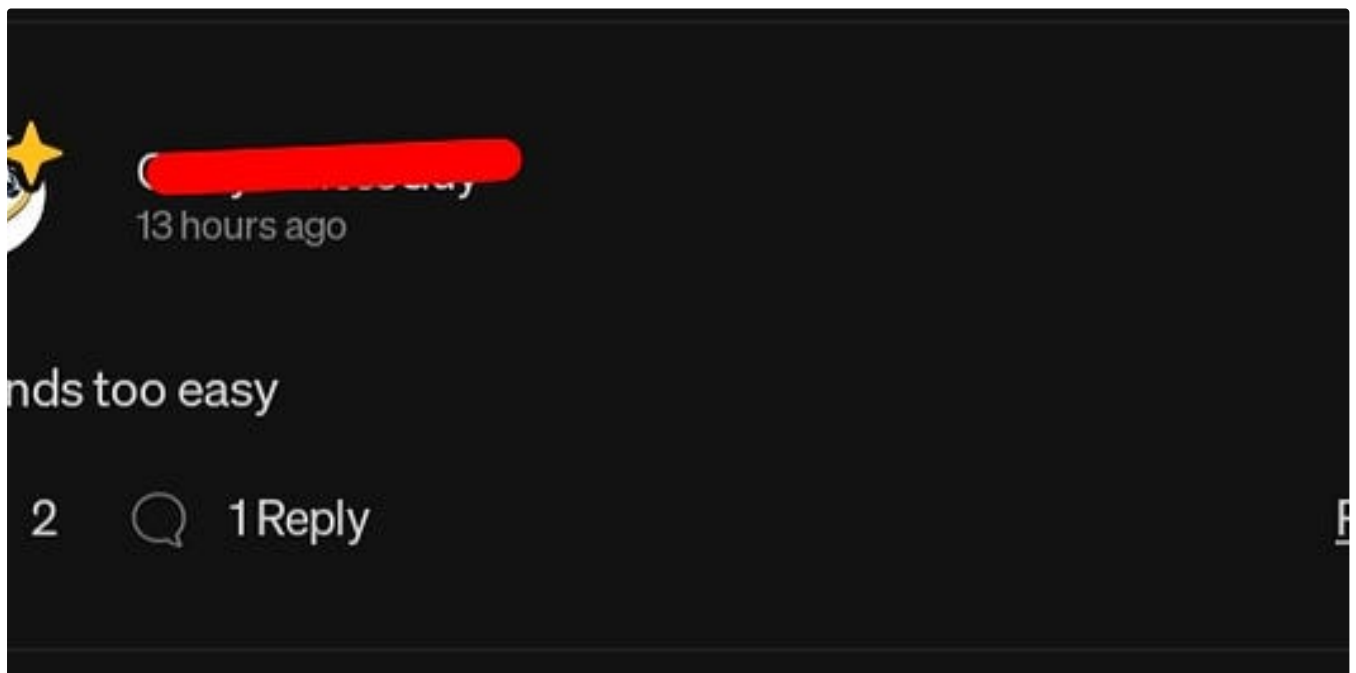
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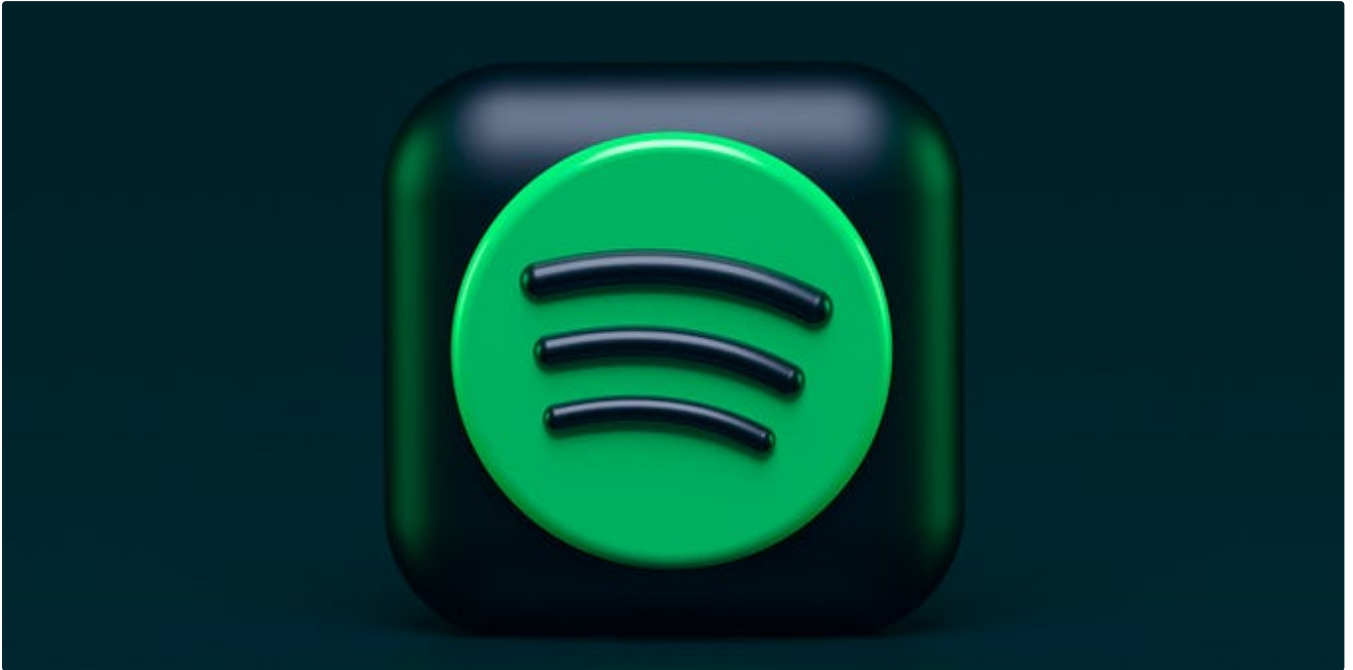
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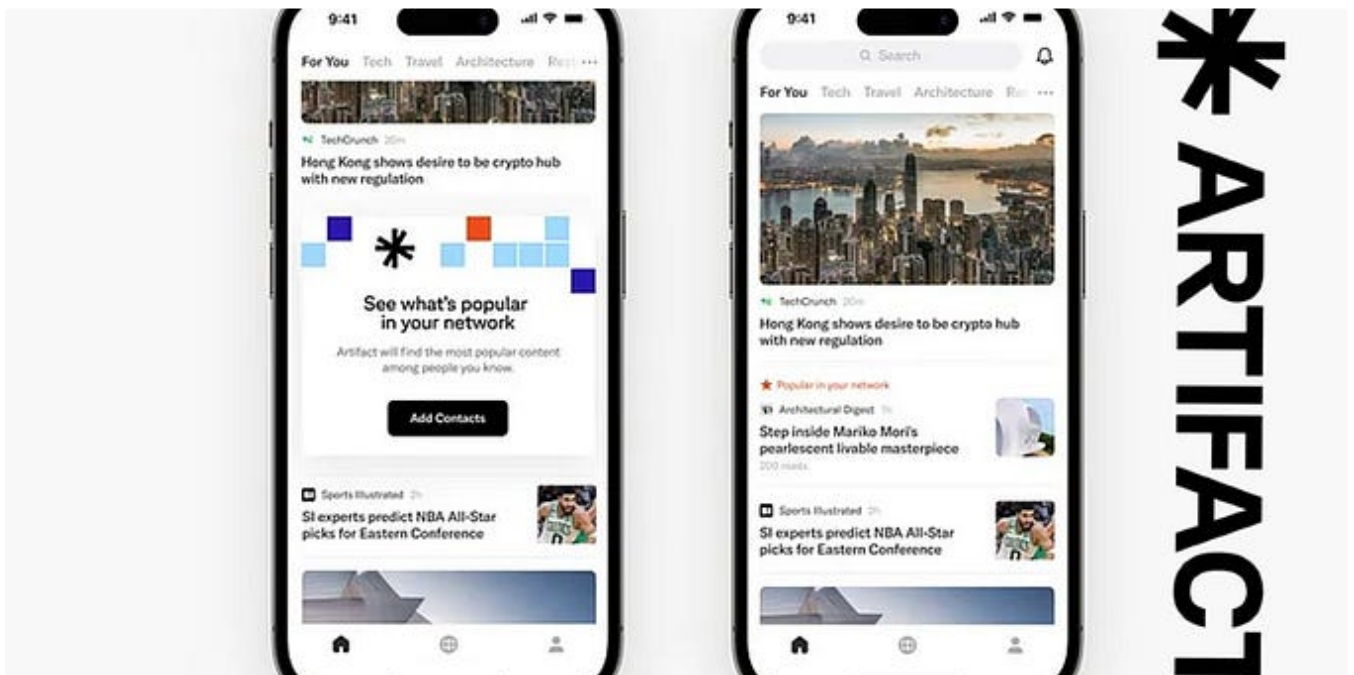
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