Tuesday, 18 August 2020 1:55 PM

Key ferms:

Bit-map image: System that uses pixels to make up an image.

Pixel: Smallest picture element that makes up an image.

Colour Depth: $2^8 = 256$ Number of bits used to represents
the Colours in a pixel.

Image Resolution: Number of pixels that

make-up an image.

Hoge x3192 = 12738656

Rows Columns. Pixels in total

Resolution

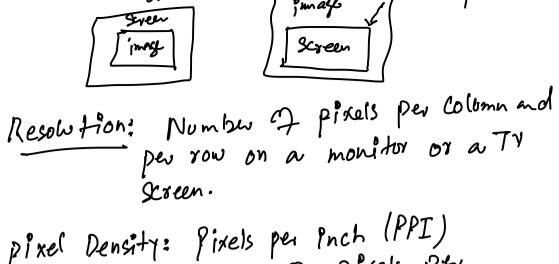
Screen Resolution: number 7 trorizontal and vertical pixels that make-up a screen display.

Screen display.

9f the screen resolution is smaller

Screen display.

9f the geneen resolution is smaller
than the image resolution, the whole
than the image resolution, the whole
image can't be shown on the screen,
image can't be shown on the screen,
or the original image will become lower
or the original image will become lower
or the original image will become lower



Pixel Density: Pixels per Inch (PPI)

Number of pixels per

Square inch.

Bit-map Images: Are made-up of pixels (picture elements); the image is stored in a two-dimensinal matrix of pixels.

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Timage

Height 5

- Resolution - Pixel - Image - Colov

Kesolution - Lolov Depth (Range) 9x5=45 >width e This image has 16 Colors/Pixel.

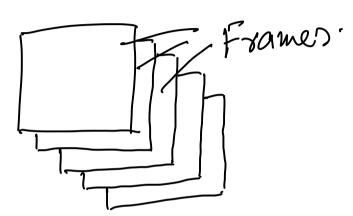
Color 24 = 16 70 (0000) While = B Red = 5 Colors = 16 Depth = 4hits. 0101 0000 0101 0000 0000 0000 0000 0000 010101010101 Information required by the operating?

System related to this imag.

1 Resolution 2 Color Depth. 287 bits per pixel 256 Colors 18 $2^{16} = 65k$ $2^{14} = 1.7 \text{ millions}$

Lile Sizing Size = Resolution x Depth Image 10×10 Resolution Color 32 1 Image Resolution = 10 x 10 = 100 1 Color Depth 25=32 (5) $\sqrt{100 \times 5} = \frac{500 \text{ bits}}{8} = 62.5 = \frac{638}{100}$ Image 1024 x 768 Resolution Colors 65536 Colors Image Resolution = 1024x768 = 786432 pixels. Color Depth = 218 = 65536 Resolution × Depth 786432 × 16 = 12582912 675 V

Video



Video Pile Size = Resolution x Color Depth x Frames x Time
bits. Second Seconds

Kesowtion = 10x10 = 100 pixels Colors = 32 = 25 = 5 mits Color deplit

FPS

Time = 1 minute = 30 seconds.

Viden File Size = 100 x 5 x 10 x 30 LOG COCA Brites.

= 150 600 17/43 = 18 (30 12) Sound (Music) Sound: Analogue = Natural = Contineous = Mm > Digital = Binary = Discreté 0101010 Digital 0001101 microproceno Convertir 3 Samples

