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# What is digital image and digital image processing?



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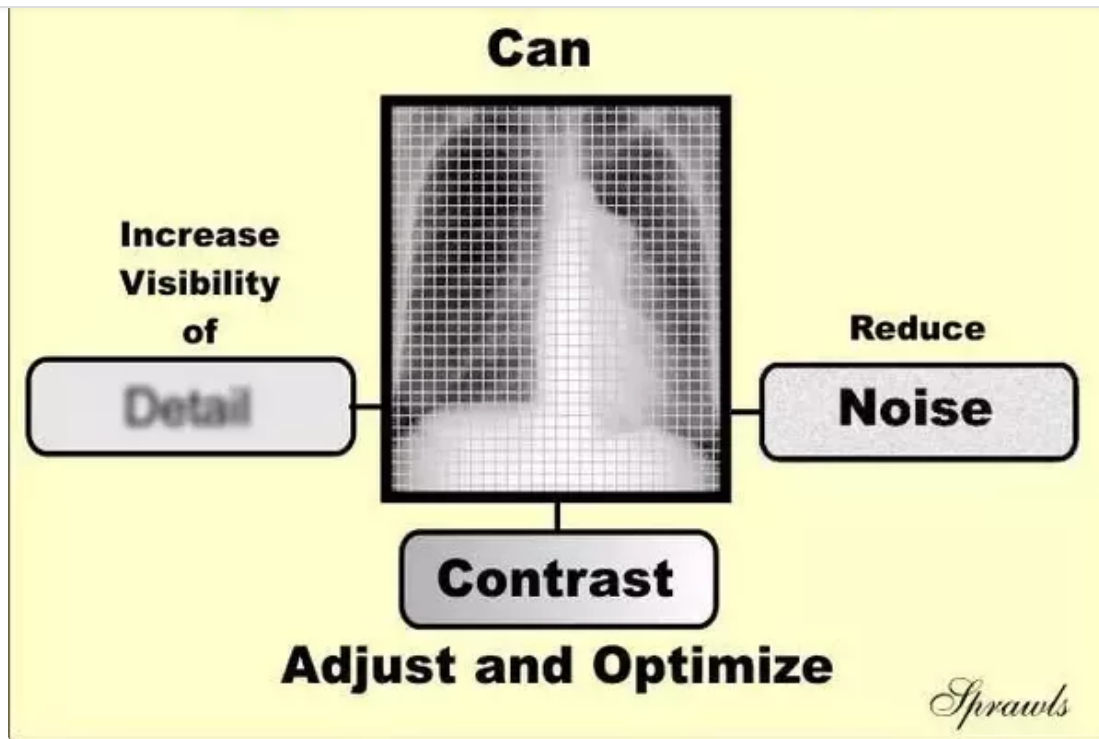
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**Digital Image:**

Digital Image is an image or picture represented digitally i.e., in groups of combinations bits( 0 or 1) or specifically called pixels.

**Digital Image Processing:**

Digital Image Processing (or in short **DIP**) is the technology of manipulating these groups of bits( or pixels) to enhance the quality of the image or create different perspectives or to extract information from the image digitally, with the help of computer algorithms.

Hope this answers your question.



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He Liu, works at The University of Liverpool

Answered Jul 29, 2015

Digital image is how computer record the photos and pictures. The smallest unit is called pixel, normally consists of a 0-255 value for gray images(0:black, 255 white). For color images, each pixel has three 0-255 values, representing RGB. So the whole picture or photo in computer is actually a data table, or matrix, with different size of pixels, eg 1920\*1080.

Digital Image processing is playing with the these data applying mathematical methods. Like filtering and compressing.

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Preethi Tarus

Answered Jul 25

[Digital image processing](#) is a growing technology which is help to enhance the quality of the image. The Image processing is perform to extract information from the image digitally by the use of computer algorithm. Digital image processing is a versatile method and also it is very cheaper. Filtering is also include in digital image processing which is helps to blur or sharpen the image. Digital image processing is depends upon the computer vision. There are two types of operation in dip. Low and middle level operation.



First, increase the quality of the image to improve the understandability of the users with the help of low level operation. Second, feature extraction and image segmentation with the help of middle level operation. Digital image processing are used in many field such as gamma -ray imaging-ray imaging , image in the ultraviolet band, Imaging in the visible and infrared bands , Imaging in the microwave band, Imaging in the radio band.





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Filters. following the same, we can have filters to sharpen the images such as  
,Ideal High pass filters, Butterworth high pass filters, Gaussian High pass filters  
,High-boost filtering and High-frequency Emphasis filtering .

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Pranoy Sarker, studied Computer Science Engineering

Answered Aug 10

Digital images are made of picture elements called pixels. Typically, pixels are organized in an ordered rectangular array. The size of an image is determined by the dimensions of this pixel array. The image width is the number of columns, and the image height is the number of rows in the array. Thus the pixel array is a matrix of  $M$  columns  $\times$   $N$  rows. To refer to a specific pixel within the image matrix, we define its coordinate at  $x$  and  $y$ . The coordinate system of image matrices defines  $x$  as increasing from left to right and  $y$  as increasing from top to bottom.

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Pankaj Rai, former ECE STUDENT

Answered Nov 18, 2017

**Digital image** is nothing but a 2-D signal which is defined by a mathematical function  $f(x,y)$ , where  $x$  and  $y$  are two co-ordinates namely horizontal and vertical.

On the other hand **Digital Image Processing** deals with developing a digital system that performs operation on a digital image.

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Hitesh Patel, Project Manager at Word Processing India

Answered Mar 4, 2014


A digital image is a numeric representation of a two-dimensional image.


Depending on whether the image resolution is fixed, it may be of vector or raster type. By itself, the term "digital image" usually refers to raster images or bitmapped images.

Digital image processing is the use of computer algorithms to perform image processing on digital images.

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