

Y

Y 1. A horizontal dimension of a coordinate in a two- or three-dimensional vector coordinate representation. The value may be absolute, measured from the origin $[0, 0]$ or relative such as $[X_0+X_1, Y_0+Y_1]$. A 2-D computer image or animation might be stored and generated using absolute or relative coordinates that include X (horizontal) and Y (vertical) dimensions. Authentic 2-D animations depend upon matrix multiplication where sets of coordinates are multiplied by a transformation matrix. 2-D vectors $[X,Y]$ might be exchanged for homogeneous vector coordinates $[X,Y,H]$. The homogeneous dimension (H) is added to accommodate a three-row transformation matrix, so increasing the number of possible 2-D transformations. (See 3-D.) 2. A luminance component of video signal.

Y2K (year 2000) A term used to describe the year 2000. The lead up to the end of the millennium sees numerous IT systems being renovated to accommodate the need for date stamping using the year 2000 and its increments. Many non-compliant Y2K IT systems were created decades ago, when little consideration was given to the future.

Yamaha A large company engaged in consumer electronics, computers, music and more.

Y-axis A horizontal axis on a graph or drawing.

Y-dimension A horizontal measurement that might be absolute or relative, in a 2-D or 3-D coordinate.

(See 2-D and 3-D.)

Yellow Alarm An alarm state which forms part of the T1 circuit specification. (See T1.) The Yellow Alarm is activated by:

- the receipt of a Red Alarm signal
- severe burst traffic.

Yellow Book

Yellow Book An alternative name for the CD-ROM physical format created by Philips and Sony. Later, standard file structures came about as a result of industry cooperation in 1985 by way of the High Sierra Group (HSG) standard. This was built upon by ISO to become ISO 9660. A universal distribution medium based on Compact Disc, CD-ROM was the first viable multimedia distribution medium.

(See CD-ROM, CD-ROM data block and DVD.)

YMODEM A protocol that supports data transfer using 1024 byte blocks, also referred to as XMODEM 1K.

YMODEM G A protocol which transmits a complete file before an acknowledge signal is received. It is intended for modem devices that have built-in error detection and correction.

YUV A collective name given to the luminance (Y) and chrominance components of a video signal.