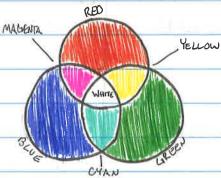
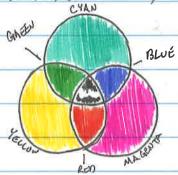
graphics color models

RGB: RED, GREEN, BLUE



- · PRIMARY COLORS OF LIGHT
- · USED MOST IN COMPUTER SCREENS

CMYK: CYAN, MAGENTA, YELLOW, BLACK

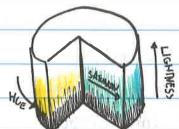


- · PRIMARY COLORS OF PIGMENT
- · COLORS USED IN PRINTERS

HSV: HUE, SATURATION, VALUE



HSL: HUE, SATURATION, LIGHTNESS



YCOC: LUMINANCE, CHROMINANCE BLOE, CHROMINANCE RED



	file formats
N ₃	
8 0	GIF: GRAPHICS INTERCHANGE FORMAT
	· DEVELOPED BY COMPUSERUE
	· DESIGNED FOR 8-BIT COLOR MAPS
W	· MOSTLY USED FOR LUMATIONS NOW
a e	Lander Lander Company of Carlotte
	JPEG: JOINT PHOTOGRAPHIC EXPERTS GROUP
	· Semi-JORMAL STANDARD
M.	· MODELED ON HUMAN VISION
	· USES (4, Co, Gr) color model
	· GOOD COMPRESSION FOR REALIST C MAGES
	College Colleg
4.8	PNG: PORTABLE NETWORK GRAPHICS
_	· DESIGNED TO REPLACE GIF
	· MORE LOVANCED COMPRESSON FLAN GIF
-	· SUPPORTS MOLTIPLE RGB MODELS
10 = a 2%:	PBM: PORTABLE BIT MAP
4	· UNCOMPRESSED UNIVERSAL FORMAT
	· INTEXMEDIATE FORMAT FOR CONVERSIONS + MANIPULATIONS
	PGM- PORTABLE GRAY MAP
2	PPM- PORTABLE PIXMAP
	PNM- PORTABLE ANY MAP
1	PAM- PORTABLE ARBITRARY HAR

raster image
representation I display
E MAL THERE IT FRANCE
* 2D ARRAY OF PINELS
* PIXEL: PICTURE ELEMENT
* PIXEL VALUE
- 0/1, Off/On, BLACK/WHITE
O-n, Shades of GRAY
- (0-n, 0-n, 0-n) RGB VALUES
*FRAME BUFFER FOR DISPLAY
= B: BASE ADDRESS OF FRAME BUFFER
= W: width out a row war
Address of a PIXEL (CST): B+CW+C
ascii art
*USE ASCII churactus for pixels ##/1
* Eg -=+ * /# For increasing darkness
* Use overstake for more densty and shedry
The material system for it, and the state of the first of the state of

The same will be a second

image manipulations * SELECT COMPONENT INAGES * DETERMINE IMAGE ALIGNMENT * ADJUST COMPONENT IMAGE LEVELS * ENHANCE SHARPNESS finding alignment REPEAT FOR ALL POSSIBLE ALIGNMENTS COMPUTE CORRELATION OF 2 IMAGES IN AN AREA OF OVERLAP RECORD RELATIVE POSITION IF HIGHEST CORRELATION FOUND - MOVE TO NEXT POSSIBLE ALIGNMENT * SOMETIMES IMPROVED BY EDGE DETECTION * DONE IN STAGES OF INCREASING RESOLUTION adjusting image levels Si Sum of Pixel values on the first mage along adge of overlap Sz: Sum of pixel values on the second inage along edge of ourlesp Multiply all pixel values of the second image by 52

unshar	p n	rask	ling

* Some IMAGE UNSHARPHESS: SUM out sharp image and FILTERED BLURRING 100 * CORRECTION: - COMPUTE BLURRED IMAGE B BY FMULTIPLYING A BLURRING MATRIA FOR EACH PIXEL IN THE IMAGE I COMPUTE THE NEW IMAGE VALUE AS I ; - & Bij FOR SOME VALUE OF OF bresenhams algorithm plot LINE (1, 1, 5,2); plotLine (x0, y0, x1, y1) dx = x1-x0; dy= 12-y0; 2 3 4

dx= 4 dy= 1

e=0,1,2,3,4

y=1,2, x=1,2,3,4,5

BRESENHAM CAN PLOT ANY LINE LESS THAN 450 EASILY

A STATE OF THE STA	1	
	CASES	had a A
LETTER	ANGLE	ALTERATION
A att	0°-45°	(X,Y)
В -	45-900	(x, x)
C	90-135°	(-y,x)
D	135°-180°	(x,y)
E	180°-225°	(-x,-y)
F	225-270	(-y -x)
mat G on	270°-315°	(y,-y)
LIBCH SED,	315°-0°	(x-y)

WHEN THESE CASES ARRISE YOU CAN CHECK FOR THE

IN AN IF STATE MENT

* PUT THE ALTERED COORDINATES IN THE FUNCTION

* THE OUTPUT COORDINATES WOULD THEN BE

ALTERED SO SWITCH THEM BACK

andificial intelligeneer-

hay tracing c profit. " LIKE MODELING A PINHOLE CAMERA " FOR EACH PIXEL ON THE "FILM" PROJECT A RAY THROUGH THE PINHOLE FIND THE INTERSECTION OF THE RAY WITH THE OBJECT IN THE IMAGE SET THE PIXEL TO THE COLOR LUD ILLUMINATION BY MOFILITHE INTERSECTION POINT ON THE OBJECT was recorded A & All my of the

altham of may and high on