UNI 1-1

INTRODUCTION

MULIMEDIA .

Multimedia means that computer information can be represented through audio or video. In addition to text, image, graphics and animation.

Multimedia has popular power Ful communication technology in the ever changing world of computer.

Multimedia means communication of different types of media such as fext, graphics, natural image

According to American heritage dictionary, a multimedia system categorised by computer control, integrated broduction, manipulation, presentation; storage and communication of independent information which is encoded at least to a continious and time independent medium.

* Component of Multimedia

Text

Graphics

Audio

Video

Animation

Text:

The screen display word that is text. It is the base of most application. The use of different type and style of font, colors are imphasis the specific point.

Tt include word-cirt, computer generated photographic and capture video frames.

Audio This include speech audio effects, different types of background sound and music.

Video : Everything that we see on the screen is called video sound, picture moving picture is called video.

Animation: >

It is a continious movement of a series of graphics, picture, images, that is called Animated picture.

* Types Of Multimedia:

Linear Multimedia
Non-Linear Multimedia

A multimedia: A multimedia project is said to linear if the user can site back and watch just like worthing a movie

Non-Linear Multimedia: A multimedia project is said to be mon-linear if the user cire given navigational control and can wonder through the content of the project or multimedia. It is also called "inte multimedia.

Application in Multimedia Business application for multimedia include presentation, training, marketing, advertisment, product demo, catelog, instant messanging and network communication.

the help of multimedia technology using the communication technology for global work group as like video voice-mail,

audio-conferencing, cell-phone, persona digital assistant (PDA), Utilizing Blue-tooth and Wi-fi communication technology.

Multimedia in educational & training

Multimedia is used in educational straining sector by "Yale University" school of medicine, is prevides physician with suc case presentation and coodio logist, radiologist and medical sector.

media is enseying wide spread use in to the international terrorisms and security through simulation.

Interactive television widely used among computer to som student from different location into a class with one teacher.

Ch-line school, the student can envoll take admission all over the work

Multimedia in intertainment:

a days mutimedia games are develop using special technology such as

Virtual reality to make the games just like experience of real-life.

in the field of television, bread-casting and movie also as for ag:—
Television replay slow motion, charf analysis.

(iii)* Multimedia in Public-place

media is widely used in Hotel, Railway station, Shopping-Malls, Library with the help of Stand lone terminal cultich providing information and help to customer and visitor.

Now a days multimedia are also found in the place of work ship Live video attached with multimedia sound system and special effect lighting.

* Virtual reality ...

environment creted from the computer hardware and software presented to the User such as, manner that it appears and feel like a read environment. To onter in a ristual world a user were special glucker, ear-phone, goggles all of which receive their input from the

al.

ve

5

יום

in

Computer system.

of geometric and point plotted in three dimensional (3-D) states.

* Building-block of Multimedia: >

Type face is a family of graphic character that usually include many type size and style for fix a collection of character of single size and style begining to particular type face family critical fant style are Bold face and Italia, and additional attributes with the help of multimedial software. Type size are usually expressed in boins are and cup paint is collisered in boins and an are paint is collisered in boins and an are paint is collisered in boins and an are paint is collisered.

* Hypertext : With the help of ilses can casily jump from one web page to anoth by clicking the pointing device.

* Web-pages: Deceleration and link of pages are called Home-page. Hypertext work like a bridge to annect from

character by character and each character required 1-byte space in the memory. Text can be made using various fext editing and processing tests such as M.S. word. Page-maker, etc were text file can be developed and later imported in to multimedia tacks:

described as the pictorial representation of data form by the premeptive object such as line, polygone, and circle, curve and arc. In graphics line can be presented by mathmatical equation, whose can be stored as a set of binary code. As for example,

CAD (computer Aided design) is a software CAM (computer aided manufacturing)

Image are the steal picture that are represented as Bitmap. Bitmap is a image consists of 1-Dimensional square a citrich is called "Pixel" or "Dot" on the screen. The size and quality of image is depend upon the pixel desity and number of color is use.

too.

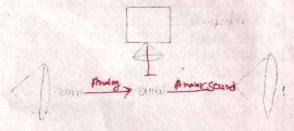
20

Pixel: Pixel is the smallest cross co dot of screen. The pixel depends a 2- Dimensional shape.

Audio -

Intex

It is the viberation of ear molecules in the atmoshere that can be detected the ear when the audio armested into digital from to produce digital audio. In order to use it in a multimedia and the digital audio system again corrected into analog from which can be heaved on the specificate two way transmission of sound is called Analog to Digital and Digital Analog.



MIDI (Musicial Instrument Digital 3) face), hav, it is used to store work from audio data.

ware

()

Video: Video is the moving picture on screen. It is used for primitive felevision show film and adversiting. There are three main type of video file are used in multimedia i.e auck-time, avi, mpeg.

Quick-time: • Guick-time and mipeg are most commany used format file mipeg is extremely high quality cutput. It delivers higher image resolution and picture quality with multipresclution and multi channel audio leature.

* Animation : Animation is the paccess of sequencing still image in a subid session to give the effect of live motion.

* WAY (Wave form)

AVI:

AVI technology on you create, edit, present motion, video segment circuity in small window in present.

* MIRSH (Motton Picture Expose Group)

* Animation: An animation has sta certain number of image and frame in very essential position for protessional animation one need to have at lea 30 facilité persecond. Alimetion can be useful because, it provide: Continuty in transition. When & some thing has two or more state then Change between state will be much ea ter used to understand if the towner 1er 88 ion are animated instead of being simul taneously. (ii) Illustrating change over time on animation is a time display, at prov ne a one-to- one mapping to phenome de the change evertime.

Altracting attention: -- Animation has the ability to control a uses visual awareness and this advantage an be change in the intestace.

C.P.U:

CPU is required for multimedia computer must have advance chip, such as power PC. Intel microprocessor, core-Dual, centrino, centrino-2 with the latest version of operating system and silicon graphic have their a set of powerfull processor for multimedia. CPU of multimedia computer should be math co-processor attached otherwise the response time of multimedia wilt be poor with the help of co-processor chip greately reduce the load of CPU. The powerfull co-processor chip added for multimedia supporting the graphic is called graphic accelerator.

Memory: To develop the multimedia, memory must have powerful as a like RAM 16B and attached additional memory

ne+

14.

10

as a like eache memory.

Secondary storage device:

In mutti
media development, there one different
types of secondary storage devices one
used as a like Horddiskofloppy disk
OD, DVD.

Input Device Tribul device are used in multimedia development as a like keyboard, nicuse, touch screen, bluetooth Infrared, Wi-fi, digital camera.

Cutput device is speake.

monitor (CRT, TFT, LCD), multimedia procedi
pointer are curput device which is used
for multimedia development.

types of communication device which used in multimedia development for data communication. As for example - Modan ISDN, DSL (Digital subscriber line), DVD (Digital versatile disk). DVD is a new medium carpable of G.B storage capacity

= but also full motion, video and exists high quality audio in sound. It is used for multimedia development. The main advantage of PC user is the capacity of 4.7 GB to 17 GB.

Sound card:

9f you want to better
quality and capability for sound output or
input are required then their must be a
device which can be added to the basic
machine. This device is known as "Sound
card". It is added into the basic machine
by inserting it in free-slad. It is used
for better quality of sound form the
Loud-speaker.

Monitor: Dur multimedia Pc should be required SVGIA (Super video araphics Array) monitor, SVGIA support the better resolution for better quality of graphic and picture.

Ke!

1/1

100,

:1001

18

ta.

11/ .

)

i

* Software tools used in Mulfimedia

The settucine in our multimedia fook it and our skill at using it determine what kind of multimedia work we can do how fine and lancy making good multimedia means plaking a successful roof throught the software.

the common basic software took that are used in multimedia system:-

Text editing and word-processing tools

A wood processor is usually the first software tools computer usages learn from letter, invoice to project contents. The better our keyboard or our typing skill. The easier and more efficient will be our multimedia day-to-day life

Word processor to comps building and effice tool that might include spread sheet, database, e-mail, web-process and presentation application

OCR (Optical Character Reader): >

the CICR Software a flate-hand-scanner

in cur computer, we can save many cur of printed word and get the job done daster and more accurately than a roomful-

The CCR seftware terms bitmap character into electronically recognizable ASCII text.

A scanner typically change according to content text or graphics by examine the textual and density of circa of the bitmap and by detecting edge

> Painting and Drawing tools :-

as well as 3-D model are perhaps the most important item in our tool kit because of all the multimedia element, the graphical impact of our project will likely have the greatest influence on the end-user.

Soficione such as photoshop, fixe-work and pointer is dedicated to producing exact bitimp image.

Documing software such as cool-draw, free-hand, illustrates designer and easies to dedicated producing vector based line and easily printed to paper all high resolution.



th

hat

1)

0

et

1

2-

18.

29

1 3-D modeling and animation tools:

These are several 3-D modeling software are used to produce 3-D images that is auto desk, strata 3-D and Avid's software image, alias convertions to complete image from a few hours to complete depending upon the complexity of draw

Image editing tool:

specialised and powerful tools of inhancing and setouching existing bitmap image. These application cuso provide many of the features and tools of pointing and drawing programs, can be used to create image from scratch as well as image from scantol artwostile created with a pointing or drawing backage.

Sound Editing tool:

Sound Editing too for both digital and MIDI sound let we see music as well as hear. By documing a representation of sound in fine increments whether a score or a wave torm, we can out, coppy, paste and

Officerwise edit segment of it. Recul-one player, set ciudio, windrip, D.V.D player are also supported this type of task. you can easily perform the work/task of sound in this software.

Animation, Video and Digital movie.

Animation and digital video movie are sequence of bitmap graphics frame rapidely playback But animation can also be made within the authority system by rapidely changing the location of object or sprite to generate and appearance of motion.

Authoring tools with respect to Multimedia-

Multimedia authoring tools provide the inportant frame work for arganizing and
editing the element of multimedia project
including sound, graphics, animation and
video clip. Authoring tools are used for
designing interface for presenting the project
cut screen and for assembling multimedia
element into a single product. Authoring
software privides an integrated environment
for binding together the content and function of the project. Creating, editing and
impost specific type of data, assemble

me.

wasa

n-

119.

r

provide to user input with multi- au thorng software we can make,

Video Poeduction (vi) Ki osks Application Animation (vii) Demodisk and Guiding too Germes wiii Interactive forming Interactive Web-site Lix> Simulation poor Presentation and technical vision of Authoring tools:

Cand ex page-based tooks

17 Icon to object based even driven tool

Time based tous

1> Card or page-based tools: >

authoring system elements are coganized as bage up a book or a stack of a coor Thousands of pages or cards may be available in the book or stack. These tools are best use when the bulk of our contain, consists of elements the can be view individually like a the part of a book or card in a card-file to authoring system link these pages or cards in to organize sequence, we can jump on command to any page

we wish in the structure novigation battern.

Icon or object based even driven tools: .

In their authoring system multimedia elements and interaction use as object in a
structural frame-work or process. Icon or
object based event driven tooks simplify
the organization of and project and typically
clisplay flow diagram of activities along
branching path. In complete navigational
structure this charting is particularly useful during development.

Time based tools:

In these system elements can events one organize culong a time line with resolution as higher or higher than 1/30 second. Time based tools are best to use when we have a message with a begining and end sequencly organized graphic format are play-back at a speed that we can set other element. Such as audio events are trigges data given time or location in the sequence of events. The most bowerful time based tools program sump toany location in a sequence there by adding nagigation and interactive control.

0

Authoring System: An authoring & is a set of software tools for creati multimedia application in an authoriz eriviconment. A person who create al blication for multimedia, integration is called "Author". * Features of authoring Software: Authoring seftwere is the main bro a duction tous for multimedia. An author system is a program which has bæbrogram element for development of interactive multimedia titles. Author system very widely in orientiationcapabilities, learning capabilities the usex. The main fectures of cus thorning software one: a Integrated multimedia element script language programming Dynamic linking library (DLL) circ Suppostive CD-ROM

the help of authoring software, we can add and peripheral devices to play multimedia. Authoring programs are used in education, training, business application.

Script language programming:

Authoring software provide ability to write script for software to built features that are not supported by the software itself.

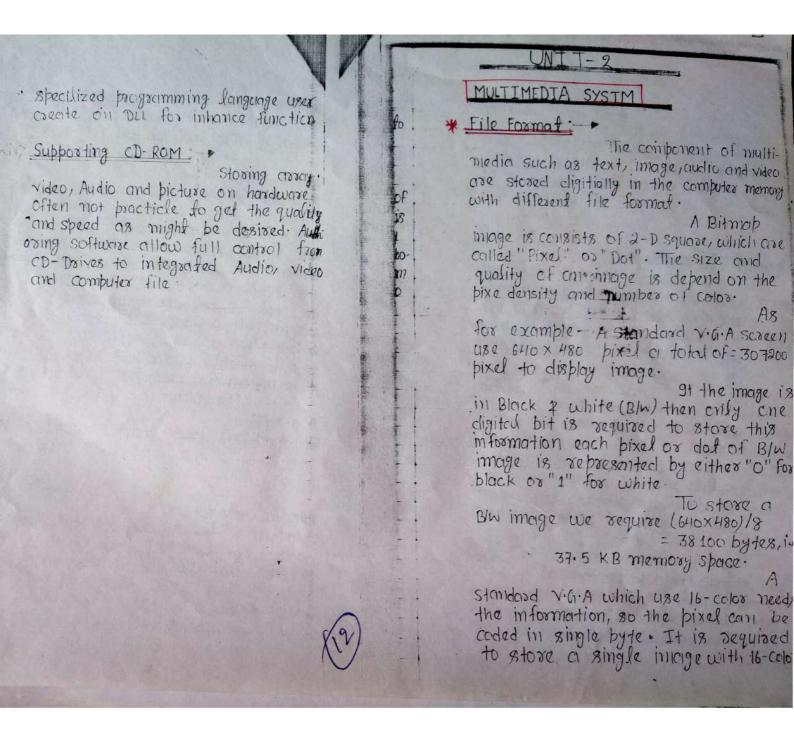
language program create multimedia presentation from a series of programming style command, link fogether in a wordprocessing type script

With the help of authoring software we can write the script language which is closest in form to traditional programming and specify multimedia elements sequencing.

Dynamic linking library (DLL): >

Dynamic Sinking library for extending features which provides the facility to add on board and peripheral devices include, Specifized DLL upon installation

Hom.



Cofor (8-bit per dot) then 32,000 colors (24-bit per dot).

So, the stand image will 16 color will be idec od solution for a sow cost mustin olia backage This bitmap file can be . easily. However, required large me edit memory space for editing purpose. As bitmi image are st 1 as a large tile required large mount of large Space to civil this problem the image & Can be compressed which make the con of facts that many entries in a bi file has repeate information or ex Contin very little information.

are various formed such as bmp, p
box, GIF, JPEG, tiff etc.

Bmb: >

It is a standard, uncomposed bitmap file format for microse the windows and IBM as-2. It has a maximum of 16.7 millions colorse (24 bit par pixel). These type of image file are accessible through wind an paint-brush the extension is bmb

The is popular file format used widely for paint and desktop publishing program. It has a maximum of color 16.7 millian (24-bit per pixal) and extension is "PCX".

It is a compressed file formad that keep the file smaller size. This format is widely use on the web, since file can be send faster than many other format. It has a maximum of 256-calor (8-bit per pixel); extension is "gif".

The compressed file formed that keeps the file size much more smalle (10 times than gif files). It has a maximum of 16.7 million color (24 bit per pixel). The file format is use to store photo realising image that contain many colors and extension name is "ipeg".

tiff: (Paged awage file formate):It provides the higher quality but it has large file size. This format supports lot million colors (24 bit per pixel) and the file have the extension name is tip

11

10.

up.

pini

10

X)

ess-

H .

24-

w

* Multimedia communication system

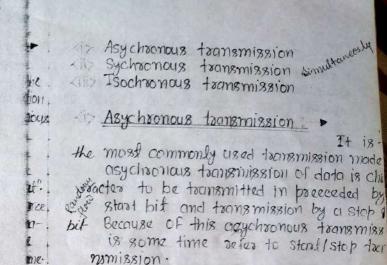
Multimedia communication system is transmission and exchange inform between the data of descriptional cou

Moseover in which each digit System transmitted information divided into individual unit i.e " tox and subsequently send away from and destimation. The source and desi intion can be located either on same computer or an different m A sequence of individual packets # tagnsmitted in a time dependent lashie called "Data flow". Packets can be carry either information of contin or discreet media.

An example o continious media data flow is transm ssion of a speed in a telephone system

> retrieval of a document from the do buse is an example of discreed m

There once three method of dorts. wans-mission or data communication to place in multimedia communica System.



Asychronous transmission is Often used low speed transmission of data. As for example.

118 sitting with the keyboard of a termi nal mile connected to one computer to anot er computer is crited "Synchronous computy gion.

> Sychronous transmission when used to activate high speed of data to

> and mission. In this mode the sender from mit block of character together in a si ngle transmission. This synchronization betw een the transmission device and the recei

I+ 18

er device is achived by the transmission



ne

ta!

1118-1

28

101

D.

pre-determined gocup of bits is known as synchronous transmission. The receiving character synchronization fransmission commonly use the laster Bread-band channel. It is used direct computer to computer communication for large computer system, because of high speed of data transfer is required.

Isochaonous transmission:

synchronous and Asychronous. In this makes the use of both synchronous and Asychronous. In this made each character start with a start bit end with a stop bit. In additional the time internal between the transmission of two character will be an integer multiplication of length of the time required to transmiss on or equired to transmiss one character.

Isochronous transmission is generally use to achieve higher data rate of transmission as compare to asychronous transmission and also the advantage of synchronous transmission

* Multimedia Database

A dota base is a collection of related information stores so that it is available to many user for different purposes.

The multimedia data base contain the vaw material registered and descriptive data for different media such as text, image, graphics, animation, audio and video.

A imcompressed image consists of a set of pixel * UNII - 3

* How video work?

Ans when light reflected from an object passes through a video camera lens that light is converted into electronic signal by a special senson called "charge couple Device" (CCD). The output of the CCD is process by the camer in to a signal containing three channe information and synchonization bulse. There are several video standard from managing CCD output each dealing with the amount of seperation between the component of the signal. The more seperation of the color information found in signal. The higher quality of the image each channel of color information is transmitted in a



18

TYING

din.

YIDEO TECHNOLOGY

seperate signal on its own cond uctor the signal output is called "RaB" which is prefered method for higher que ally an professional video work. Output can also be splite in to two seperate chrom (color) and Luma compone channel which makes the dark on light part of the video.

Analog video:

A

289

vice

In analog system video signal from the comera is de vered to the video in collector a va (video cassette recorder) where it recorded on magnetic video tope. camera recorder combine both cam and type recorded in a single de one or two channel of sound may be recorded on the video tape. It video signal is written to tape by spenning recording head the changes

local magnetic properties of the take surface in a series of long diagonal stakes each stripes represent information for one field of a video frame. A single video frame is made up of two fields. The audio is recorded on a seperate straight line track at the top of the video track although which some recording system sound is recorded between video track of the bottom of the take a control track containing the bulse used to regulate speed is present.



10

CC.

180.

00

hich

* Analog display standard;

andley breadcost video standard commonly used around the was

NTSE (National television Standard Co PAL (Phase alternate Line) SECAM (Sequentical color and Mema

In the United State the NISC & dard being phase out replaced the ATSC (Advance te kvision s committee) digital television becau these standard and format one no easily Interchangable . It is impartant to know where your multiplication project will be used . A video to ette recorded in the United state of not play on a television set in an Europian country even though the recording method and the standard Style of the cassettee 18 diffae Each system is based one differe Standard that define the way into mation is encoded to produce the electronic signal that alternately se a television picture. Multi format ver can playback all three standard ! typically can not dub from one

standard to another

NTSC :

me

\$Hee

m-.

im.

2¢.

.

vic-

£188.

will.

到.

int.

inf.

10-

Meck.

but

R

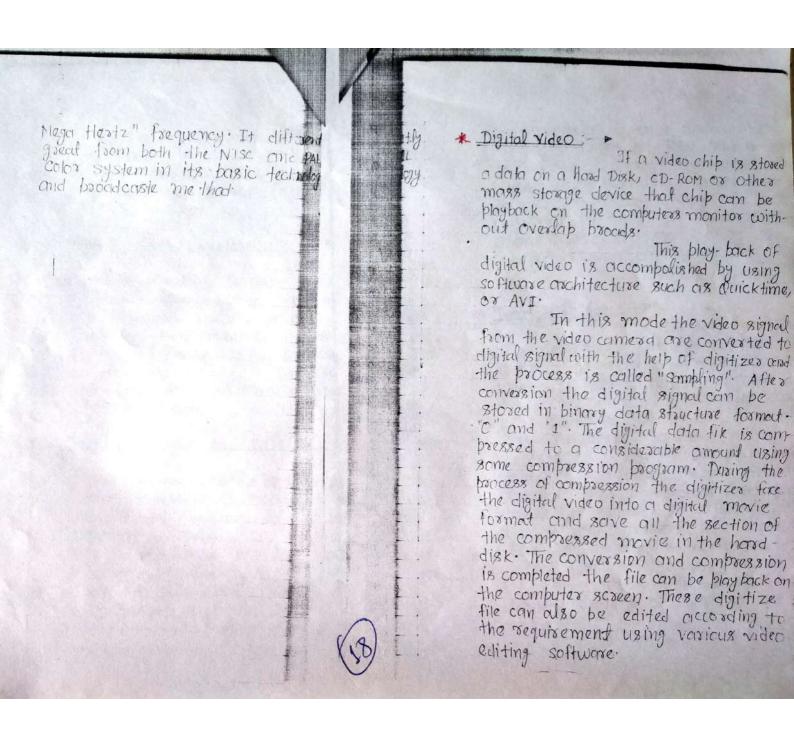
The United Stade Cemada, MAXICO, Japan, and many other country used to system from broadcasting and display video theel is based upon the specification set by the "1952". NTSC, it encodes information into electronic signal that alternately areate a television bicture. As specify the NTSC Standard a single from of video was made up of "525 horizontal scan line" into the inside face of a "phospher coated bicture tub".

PAL: -

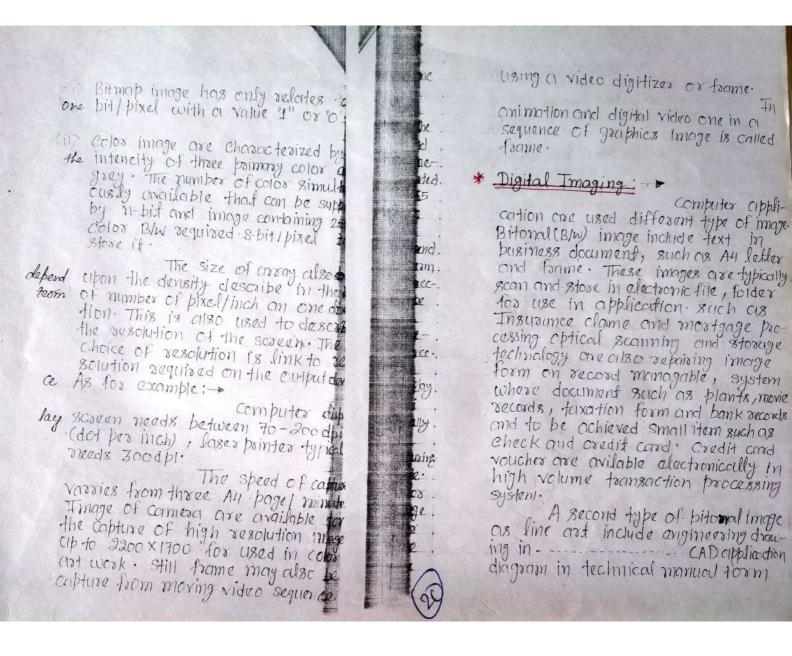
The PAL system was used in the United kindom, western Europe, Australia, South Africa, China, and Other countries can be used. PAL increase the screen resolution to "625 horizontal Line", the scan rate to "25 frame per second".

SECAM: P

The SECAM was used in france Estern Europe and few other country. Although SECAM is a "625 lines", "50



There are various consequently when a digitize video compressed file format such cis image is display on RBQ screen. There MPEG, AVI cire cised to store the dig 18 a border around the image and tal video in a compressed former when a computer screen is converted to video the outer edge of the image. will not fit on a T.V screen only * Digital video broadcasting about 360 of the 480. Line of the Digital computer screen will be visible. 11tol video broadcasting is used most ¥ 1n. Europe, where the stand defin the physical layer and data Jmage Capture: Layer of a distribution system ink . Most of the type Integrated device digital broads Hing. of image discuss normally captured is used in Japan to allow & sting 10 . using on physical scanner or camera radio and television station to conve if. tuhose purpose is not to be convert digital format. the image in to a vectangular array of a point called picture elemento Over scan and the safe titles Pixel. An optical scanning system lea's consists of a light source, a documen It is common practice in the tel holder and a light destector during vision, industries to broadcaste qu scanning the light becomes mover and 107 image larger than will fix on a ocross the document, the reflected light standard T.V screen 80, that t troni is both is converted into electronic edge of the image seen by a view 10 signal which is tunn one changes, into 28 . is always bounded by the Tov this digited form for processing and store Wal. frame, this is called 'Over scan Cal as an array of bixel. The size of this arm In constraint computer monitça depend upon type of image to be display a smaller image on the capture. picture tube (conder monitoris an) ..



aseci space and different section can flow-diagram, map and can toon. A mixture of scanning and recognization technology will be required to tunde such as image, medical image to anagnetic resources imaging and computer aided tomography (C. Isa for example:

for a remote diagonosis and rediction

* Conferencing:

A multimedia conferencing system enables operate work togethe across geographically distance location without the need meeting at once site. They considered among each other using new video, audio and textual information

Audio conferencing: >

Oldest and most popular technique of the conferencing. In this technique or more person can interact an each other at the same time common communication channel technique utilize the service of telecompany and service provided by cellular companies.

Video conferencing:

cf conferencing where audio and video conferencing are takes place.

technique the person involve in the conferencing can not only talk with each other but also see each other. It is a very tight tech conferencing technique and it is vary stil costly. There, fore It is being used in a very large size commercial organization, public whility department and media channel. Video conferencing is used either in an office environment where the video is display on P.c. or in a conference ocom where the video is display on video is display on

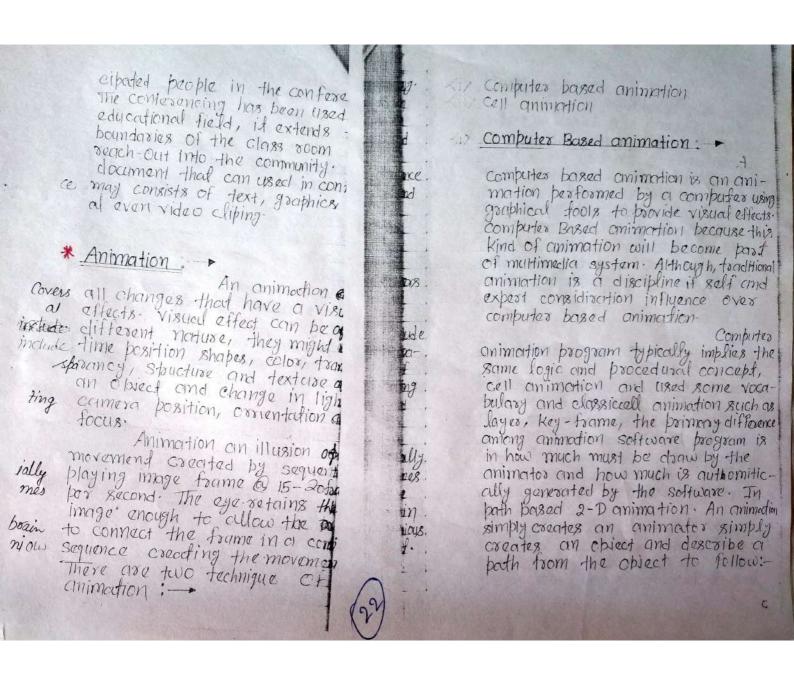
Document conferencing:

cuso called audio graphics conferencing technology allow people to meet using their pc and their telephone line. The telephone line in connected to the participates so they can share audio information and the data they store in their PC. In additional allow On-line editing of document by several parti-

0 0

ame.

acm),



puth from the object to follow:

The compiter software then takes over actually creating the animation on the fly as the program as being viewed by the user.

based 2-D animation each frame a an animation is provided by the animator and the frame are there composite into a single file of image to be play in sequence.

Uleads gif animator such as graph image file. such as avi or auick time for playing - back an animation.

For 3-D animation most of cur effort may be send one application to another application and areating the models of individual objects and the designing the characterisities of their shap and surfact is the stw that then computed the movement of the Object within the 3-D space and movement of each frame, in the attach together in a difficult files as an avi and Quick time movie.

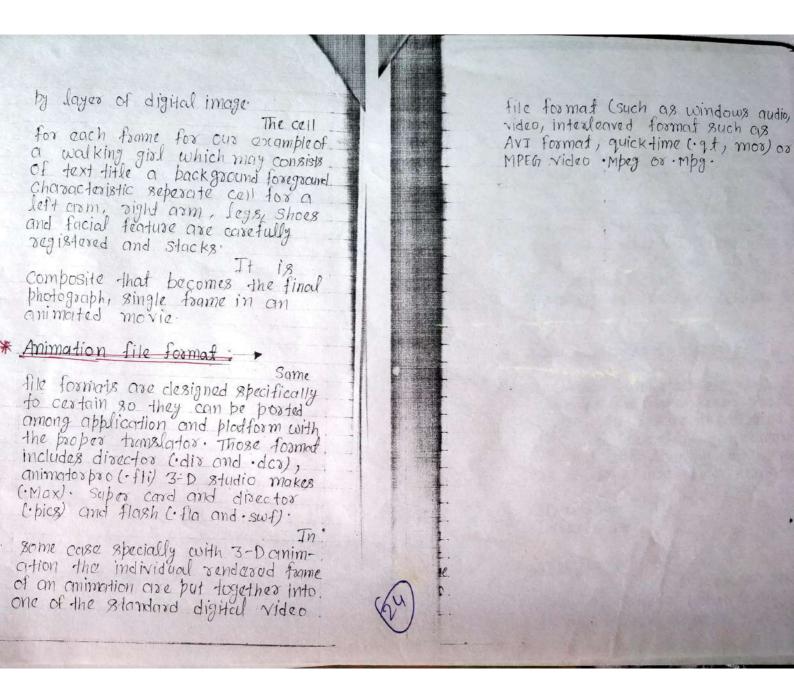
* Morphing :- >

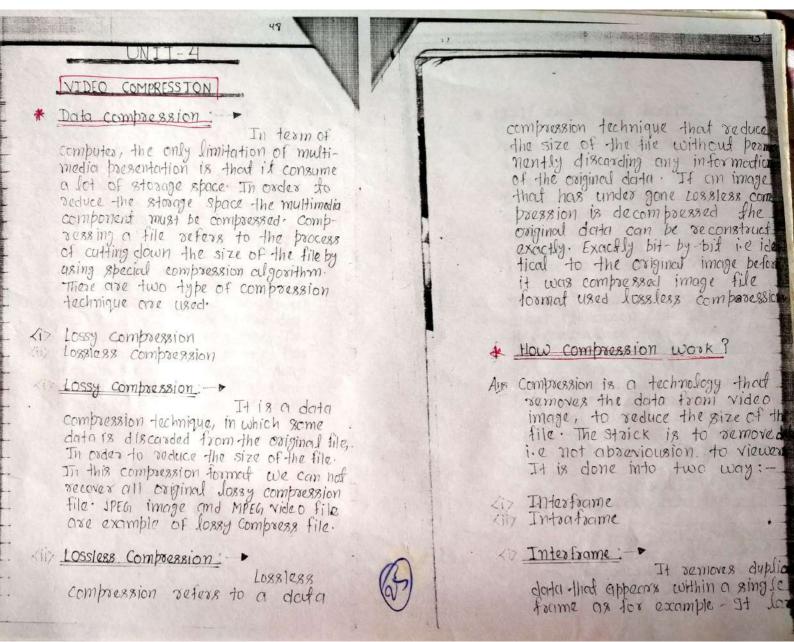
Morphing is a popular effect in which one image transform into another image morphing application and other modelling application and other modelling tools that after this effect can transition not only between still image but often between moving image as well as some product that offers morphing features are black-belt's easy morph and win image, human software squizz and valis graip:

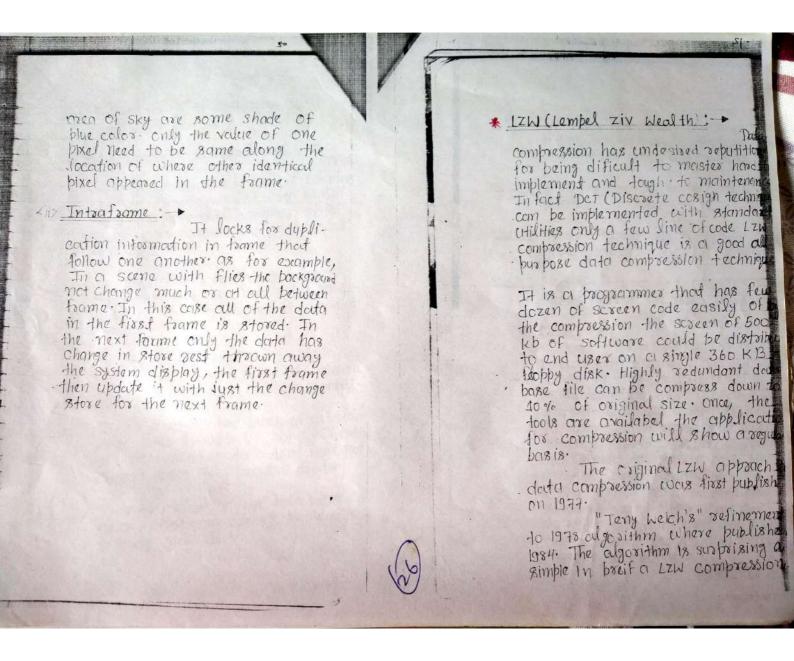
<ii>Cell animation:

The chimation technique made famous by diseny use a series of progressivily different graphics or cell on each frame of movie. film. A minute minitue of animation may thus required as many as 1440 seperate frames and each frame may be composed of many layer of cell.

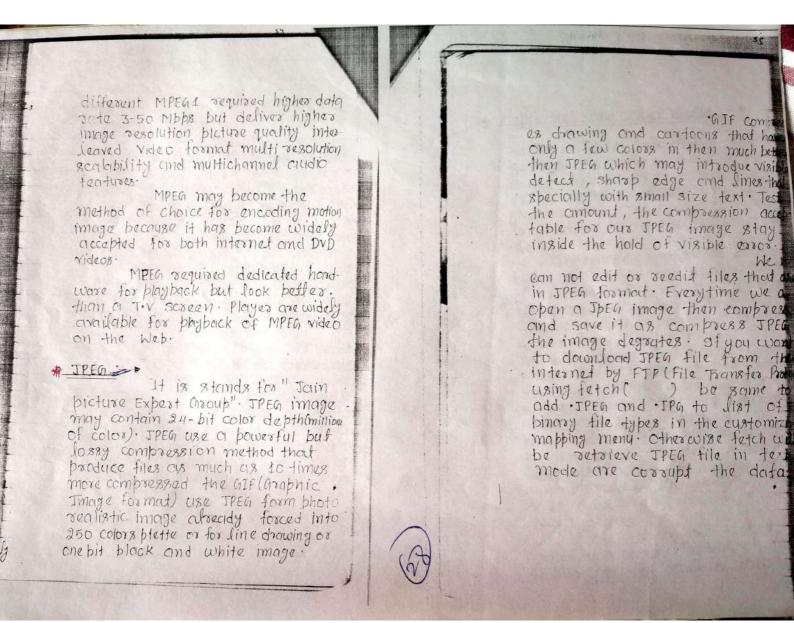
From the clear cell id sheet thouse where used to travely each frame which have been rublaced to day







Reblace string of character with single dute. 91 Use interoframe coding add 1 WX DCT (Discrete cosign Fram): information already available. a video compression technique which is Step: 6 9f there are no change in it assed to transform the data in diffevent mathmotical domain, this reprint the block. technique is corried out in a series Step: 7 9+ use quantization process to be of steb: good quality image or video. Steps The code first creating a frame Stip: 8 Finally it use 2-D incoding redu consisting of 1000 pixals by sampthe compress the video image. ling the analog signed from video camera. * MPEG: > It devide the frame into block con-It is stand for "Motio Picture Expert Group". working groce convey by the International Atom gisting of 16 × 16 pixel of luminious 8x8 pixel for each chroma channel. organization (Iso) and Internation Flectio-Technical commission (IFC topis It is analysis the block of determine To create, standard digital represe What data should be some. In order tertion of moving picture and associ to avoid sending data that have not and other data MPEGI and MPEGI change since the previous frame are the correct standard. Using MPEGA and MPEG2 are the corn the major change have take place. It Shandard Using MPEG 1 we can del Uses intraframe coding to send the 1.2 Mbbs of video and 250 kbbs entirly new duta. two Charmel sterio audio usin eD-Rom technology MPEG2 18 COM



MHEG:

education.

The multimedia and types media information coding expert group is a join Iso is working to define the representation and arroding of multimedia and hyber media infor-mation object that will be interchange cuithin or a cross applications or service Its aim is to enable bit stream Specification for multimedia and hypermedica application media or any bioteform. MHEG cover stripes suches synchronization buffer memory input object button and menus. Fig - interactive object like prompts. is design to meet the requirements of multimedia application running on work- station from different vendor and interchanging information in real time such application include computer supported co-operative work electronic publishing and audio visual system for training and

Hyper text and Hyper media: >

Multimedia is a combination of text, graphics, and audio elements into a Birgle collection or presentation become as interactive multimedia when we give the user some control overwhat information is view and when it is

Interactive multimedia become hyper-media when its designer provide a structure of link alement through which a user can navigate and interact when hyper-media project includes large amount of text or symbolic contents. This content can be include and its element than linked Logether to offer-rapid electronic retrieval of the associated information. when words are key or inside to other words, we have a hypertext system the text bant of this term represents the braiect content and meaning, rather than the graphical presentation of the text. Hyper text is what the WWW is all about.

When the text is stored in a computer hystead of an printer page, the computer powerful processing catability can be applied to the text more accessible and meaning ful the text can then called typertext because the word selection and through are link, the user can navigate through fext in a non-linear way duickly:

* Same document aschitecture:

SAML stands for "Standard Generalize.
Mark-up language". SAML tags (codes)
are used to develop multimedia document SAML determines the form of
the tag, but it does not specify
their location or meaning.

of & SAME document processing is divided into two processor:

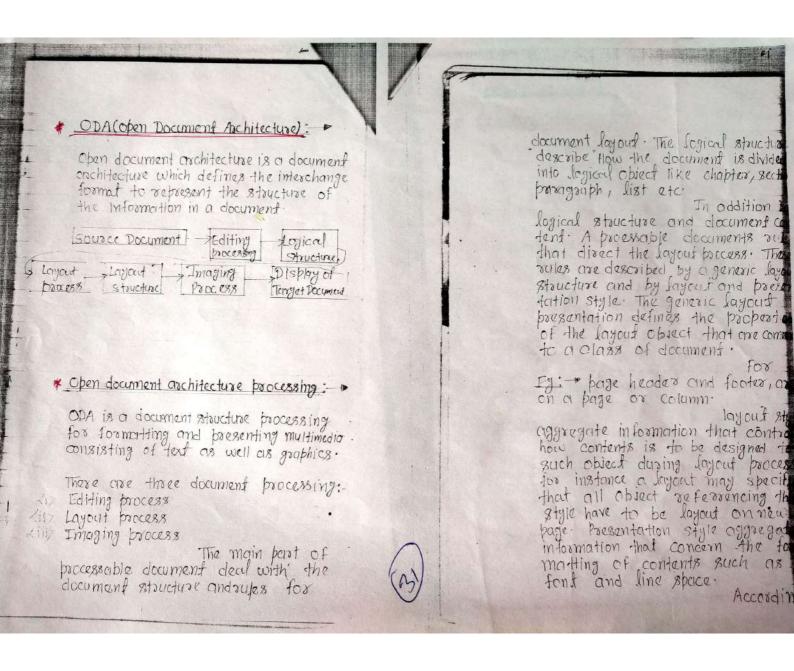
Formatter Perser

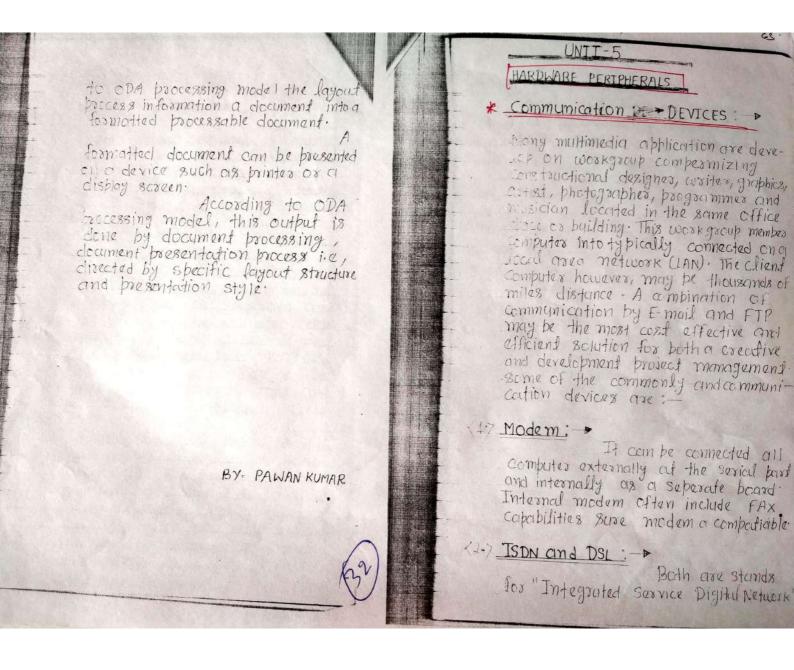
Enough the meaning of the tag and transfer the clocument in formatted. The perses use the tag occurring in the document. In combination with the corresponding done with the tag. Here,

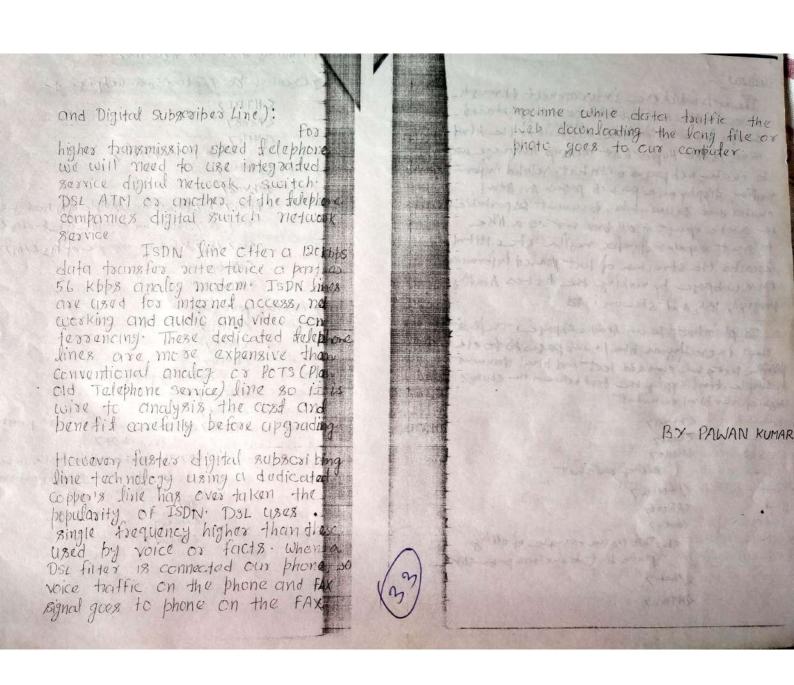
the part of layout are linked together. This is based on join f context between the original of the document and formatter process.

clata are supported in Same standard only in the form of graphics. A graphical image as a cam(computer araphics metafile) is embedded in an Same document. Same are file formed where the multimedia graphical database store for communication.









MULTIMEDIA & TNTERNET

The web which are interconnect through wise in the coord According to research Internal explore 85% use in the world case Tool is a Software through which automodically Software generated As for example front page generated automodically code generated

Designing for WWW

Designing and making multimedia element too Web is done by HTML HTML is the principle mark-up language, use to create was page with text related information display on wb- page . An HTML coented document is portable ine open in all browser In internet exploses - Mczilla, Firefox, or Net-Scape HTML describe the structure of text base information on a webpage by the marking the text as tleading, poragraph, list, and so on. tithe makes it possible to present information on the internet Therefor, we should know how to place the text on the web-page in the format and style we need to use different

time element such as Tags to document.

Text for the web

page we can specify the fonts are even alternates forts using the face cuttaibutes of the font for flexibility in the feat management in the web site we can use cast and style sheat (css) available for setting text. Hyle across the web pages.

the cittribute of display text the coles attribute, set the coles of specify Character of text and size attribute increase or decrease the size of text. We can also set the background of individual all in a table by using "BG coles authority bute".

features of HTML found in table tag used to organize the text



