ntroduction To Web

Graphics Skm 1383

Lecture 2







Internet



The Internet History

1960:

Internet was just an experimental research program used by the American military.

This project named Arpanet (Advance Research Project) and fully paid by the US government to conduct military research. connected with some universities and libraries only.

The Internet History

1974:

the first workable and independent communication hardware was created.

1980:

these experimental programs (*Arpanet*) changed shape and named Internet.

The
Internet



The Internet simply refers to the network of the networks.

All the networks are related and connected to each other and it is reachable by anyone in the globe.

The Internet

These interconnected networks or computers

transmit information using

a special Internet Protocol (IP).

What Is Internet?

- 1. Computer networks
- 2. Single computer at home
 - 3. Telephone system
 - 4. Television system
 - 5. Hand sets

The Internet And the Web





The Internet

The Internet is the infrastructure: such as the cables, the telephone lines and the computer networks itself.



The Web is just one application of the Internet.

Other Internet applications include e-mail, chat rooms and newsgroups.



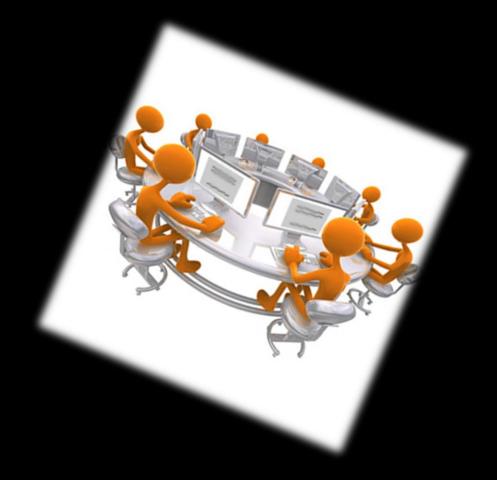
The Web is made up of information on Web sites.

The Web sites are stored on computers linked to the Internet.

The Web

This information can be sent from computer to computer via the Internet.

Your Web browser interprets this information and displays it on your computer screen.



It refers to a collection of individualized networks to suit only within an organization. In an organization, these private networks are used to communicate with all who works within that organization.

Thus making communication and data sharing easier.

It all so helps employees to communicate with the organization.

Intranet uses standard hardware and software such as Ethernet, WIFI (Wireless), web browsers, servers and IP. In order to communicate with the staff, organizations

still utilize internet.

It is protected with a firewall so that those who are not related to the organization will not be reached to sensitive information.

It is a physical transmission medium.

It is a physical data link for Local Area Networks.





what Is Graphic?

Graphic is a visual representation:

Line Art, photographs, drawings, graphs, diagrams, typography, numbers, symbols, maps, or illustration

Graphics Exercise photographs, drawings, graphs, typography, numbers, symbols, map **High Resolution picture** Low Resolution picture **Still Image Animation Image**



There are two types of graphics

- 1. Bitmap graphics
- 2. Vector graphics.

What are Bitmap Graphics?

Bitmap graphics are made up of pixels of different colors.

Digital camera or scan an image

It is a bitmap graphic.

A bitmap graphic is made of many small parts, called pixels, Computer remembers all the parts Files size is very big

Matis Pixel?

Mixture of two words pix and el. Pix means picture And el means element. The pixel is the smallest element of a picture or the smallest dots of colors. (red, green or blue)

Quality of Picture Based on dpi Dots per inch Called Pixel 300 dpi print Scaling picture From big to small From small to big

If you want to make it big It loses its quality



The clarity of bitmap is based on dots or pixels If more dots The picture is more clear. Resolution good

What is Vector Graphics?



Is based on mathematical representation Such as shapes and lines Created using adobe illustrator



Differences: Bitmap created by camera (Picture/Photo) Vector created by software (Lines/curves and shapes)

Differences:

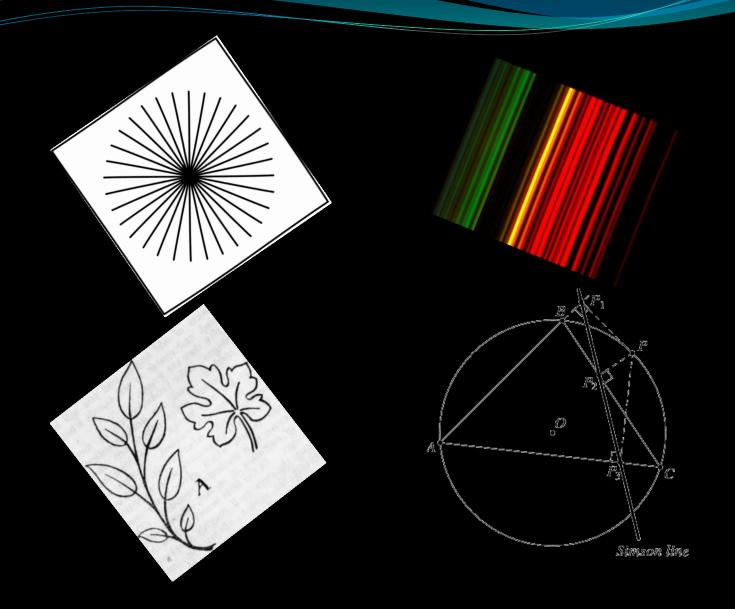
Vector does not depend on the dpi of the output device the resulting image is clear and crisp Good for logo Not good for web site Unless convert it into a bitmap ımage

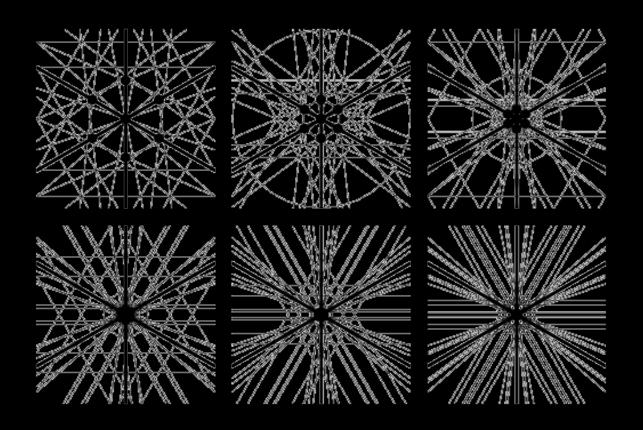
Differences: Vector is not realistic It is drawing Bitmap is real picture Vector graphics are easily scalable to any size you like Vector is smaller in size than bitmap

Differences: Size of vector graphics is depend on Lines and objects Size of bitmap is based on pixel or dots per inch

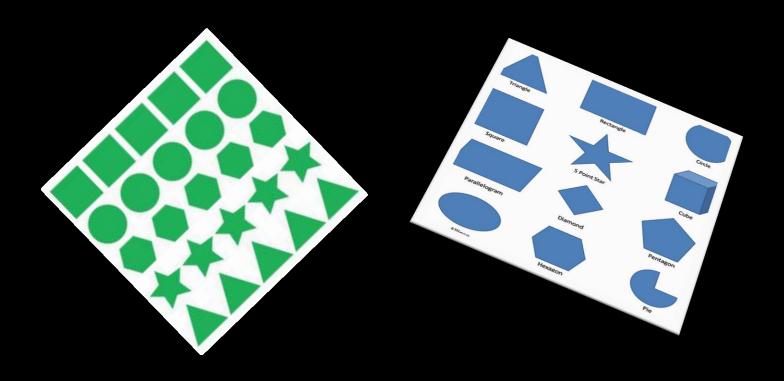
What are the elements of graphics?

Line, Shapes Text, Image Colour, Texture Format and layout All these elements create graphic as a whole





Shapes



Text





Matis Matis Image?



The word image comes from the Latin word Used in Roman Empire Long history Image exists in the history Before computing

Advanced technology Now handles image Creates and edit it User is more comfortable Efficient and beautiful

Types of images

Still images Animation images

Still images We all know still images, we take picture of our friends Picture of mountain. Painting, Drawing, Icons

Most our images are made up by still image Why? Small size, quality No special software Can be opened by any computer

What is File Format?



File format indicates the way a particular information is encoded for storage. Without relevant format the computer can not display data

File format: Is a Specific structure or arrangement of data that can be recognized by computer programs. File format instructs the computer how to display, print, and process and finally how to save back the data.

File format is a standard way of matching file with the program Example:

Microsoft: (.DOC)

Microsoft Office Excel

Worksheet (.xlsx)

Flash: .fla

PowerPoint: .pptx

Some File Formats
JPEG, PNG,
TIFF
BMP, PSD, GIF,PICT
GRAYSCALE

JPEG

JPEG means Joint Photographic Experts Group. It is about compressing photographic images.

PNG

Portable Network Graphics

Means Tagged Image File Format is a file format.

GIF

Graphics Interchange Format

PSD

Adobe Photoshop Document

GRAY SCALE

Changing color to grayscale



Still Pictures



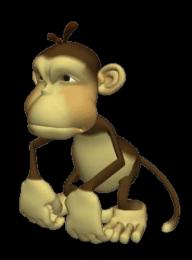
Grayscale cat





Color cat

Animation Images



It introduced to computer after still images It is made of still images with fast movements **Animated GIF files** It is a short files

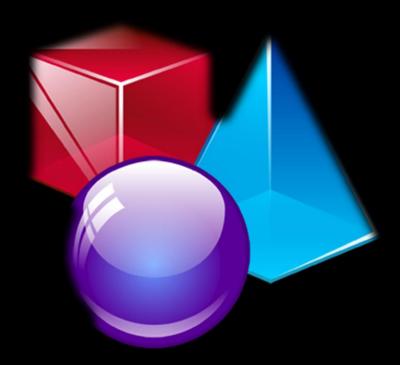




Computer
Computer
Generated Images

Computer Programming Languages Software Flash Macromedia director Authorware

What is 3D Objects?



3-D:

Images have three dimensional look and exterior. It has width, height and depth We can see The world in 3D



If we have a 3D house We are able to see:

- 1. Front
- 2. Back
- 3. Side





