Presentation On Computer Graphics



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Introduction

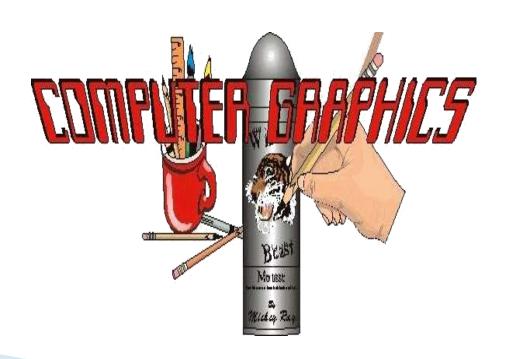
- Computer graphics can be used in many disciplines.
- Charting, Presentations, Drawing, Painting and Design, Image
 Processing and Scientific Visualization are some among them

History

- The phrase "Computer Graphics" was coined in 1960 by William Fetter, a graphic designer for Boeing.
- The field of computer graphics developed with the emergence of computer graphics hardware.

What is Computer Graphics?

- Creation, Manipulation, and Storage of geometric objects (modelling) and their images (rendering)
- Display those images on screens or hardcopy devices
- Image processing
- Others: GUI, Haptics, Displays (VR)...



Types of Computer Graphics

- Non Interactive Computer Graphics
- Interactive Computer Graphics

Non Interactive Computer Graphics

- It's known as passive computer graphics, the observer has no control over the image.
- Familiar examples of this type of computer graphics include the titles shown on TV and other forms of computer art.

Interactive Computer Graphics

- Interactive Computer Graphics involves a two way communication between computer and user.
- This helps him to signal his request to the computer.
- The computer on receiving signals from the input device can modify the displayed picture appropriately.

Application

- Paint programs
- Illustration/design programs
- Animation software
- **CAD** software
- Desktop publishing

Paint programs

- ▶ The images are stored as bit maps and can easily be edited.
- It is a graphics program that enables you to draw pictures on the display screen which is represented as bit maps (bitmapped graphics).
- In contrast, draw programs use vector graphics (object-oriented images), which scale better.

Illustration/design programs

- Supports more advanced features than paint programs, particularly for drawing curved lines.
- The images are usually stored in vector-based formats. Illustration/design programs are often called draw programs.

Animation software

- It can be defined as a simulation of movement created by displaying a series of pictures, or frames.
- A cartoon on television is one example of animation.

Desktop publishing

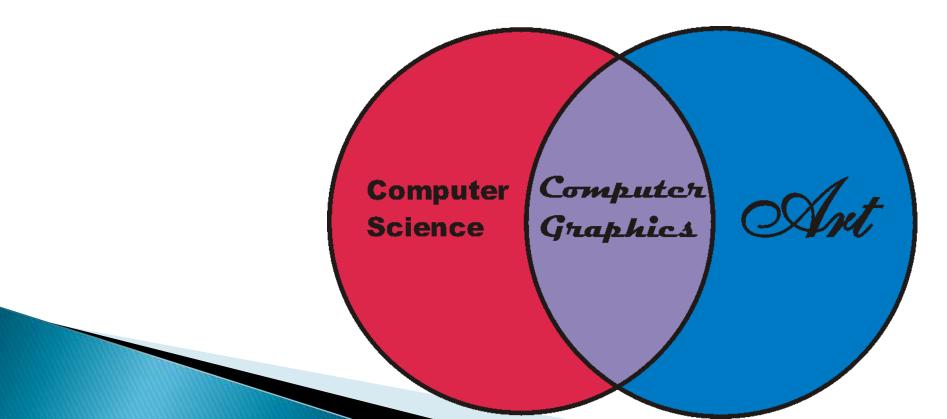
- Provides a full set of word-processing features as well as fine control over placement of text and graphics, so that you can create newsletters, advertisements, books, and other types of documents.
- It means by using a personal computer or workstation highquality printed documents can be produced.

CAD software

- ▶ It is the acronym for computer-aided design.
- A CAD system is a combination of hardware and software that enables engineers and architects to design everything from furniture to airplanes.

Uses

- Entertainment and Advertising
- Scientific Visualization
- Industrial Design



ADVANTAGES

- It's have ability to show moving pictures and thus it is possible to produce animations with computer graphics.
- The computer graphics also provides facility called update dynamics.

DISADVENTAGES

- When it is not properly built, it can be very difficult to work with.
- It generally requires more memory resources than a nongraphical one.
- It might require the installation of additional software, e.g., the "runtime environment" in the case of java.

Conclusion

However as computer graphics went out of fashion when audiences became used to them, we see graphic designers using computers as they should be intended as another tool to get the required creative effect.

Thanks