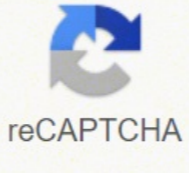




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Introduction
 The first step in the development of a program is the design of the program. This is done by the programmer. The design of the program is done by the programmer. The design of the program is done by the programmer. The design of the program is done by the programmer.

14/10/19
 MODULE - 1 → INTRODUCTION TO C
 Types of languages:-
 1. Low level language (Machine level):
 - instructions are written using 0's and 1's.
 - machine dependent.
 - execution is fast.
 2. Assembly level language:
 - instructions are written using symbolic codes or Mnemonics.
 - Assemblers are used to convert assembly level language into machine level language.
 Eg: odd: 0101
 even: 1010
 3. High level language:
 - english statements are used to write the instructions.
 - User friendly.
 - Compiler/Interpreter are used to convert high-level language into low-level language.
 Ex: C, C++, Java, Oracle, C#, Python
 Scanned by CamScanner

Change in system
 In the history of system and software development, there have been two types of system changes: structural and non-structural. Structural changes are those in which the structure of the system is changed. Non-structural changes are those in which the structure of the system is not changed. Structural changes are those in which the structure of the system is changed. Non-structural changes are those in which the structure of the system is not changed.

(Module - I) PROJECT MANAGEMENT ER. MANOJ KUMAR ROU
 Project (Definition)
 → A project is an individual or collaborative enterprise, possibly involving research or design, that is carefully planned, usually by a project team to achieve a particular aim.
 → A project may also be a set of interrelated tasks to be executed over a fixed period and within certain cost and other limitations.
 → A project is a temporary endeavor undertaken to create a unique product, service or result.
 → Origin of word "project" (Latin word "pro" means forward; "jacere" means throw, which means plan and course to move forward.
 → A project is a time and cost constrained operation to realize a set of defined deliverables (the scope to fulfill the project objectives) upto quality standards and requirements.
 → Project is a unique set of co-ordinated activities, with defined starting and finishing points undertaken by an individual or organization to meet specific objectives with defined schedule, cost and performance parameters.
 → A project is a specific activity on which money is spent in the expectation of return.
 → So the project have a specific starting point, a specific end point and it is intended to achieve a specific objective.
 → In addition, a project has a specific geographic location and it would serve a group of population.
 Attributes of a Project
 → Project attributes are a collection of descriptive characteristics and parameters of some project to define key information about the project and communicate it to stakeholders.
 → Project attributes describe project performance and activity status, example of project attributes are: goal, phase, duration, requirement, risk, deliverable, scope etc.
 → Project attributes serve as the basis for collecting and analyzing project data. They are used in planning, monitoring, measuring and

COMPUTER GRAPHICS

- the synthesis of graphical images
- Visualization: creating an image from an abstract, symbolic description

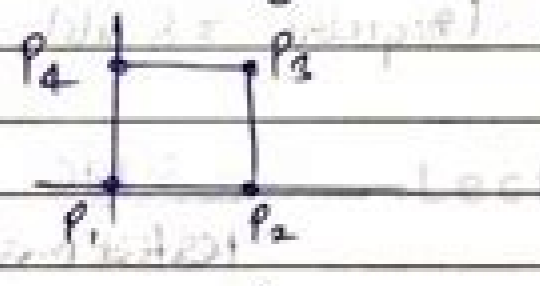
Image Processing - manipulating the image (Image restoration)

- Digital Image Processing - set of algo for manipulating digital images
- Image Analysis

Why? - Human communicate well with images - 1/2 of brain devoted to visual processing

Representing pictures

corner points, edges, sequence



<u>Interactive</u>	↔	<u>Non-Interactive CG</u>
two-way comm. b/w computer and user.		(passive Computer graphics) user does not have any kind of control over the img
Eg. Video game		Eg. animated movie

Page No.

The field of computer graphics has grown enormously over the past 10-20 years and many software systems have been developed for generating computer graphics of various sorts. Hughes, Computer Graphics-Principles and practice, Second Edition in C, Pearson Education, 2007. Computer Graphics Syllabus - 2nd semester UNIT-I: 2D Primitives Output primitives - Line, Circle, and Ellipse drawing algorithms - Attributes of output primitives - Two-dimensional Geometric transformations - Two-dimensional viewing - Line, Polygon, Curve and Text clipping algorithms UNIT-II: 3D Concepts Parallel and Perspective projections - Three-dimensional object representation - Polygons, Curved lines, Splines, Quadric Surfaces, - Visualization of data sets - 3D transformations - Viewing - Visible surface identification. UNIT-III: Graphics Programming Color Models - RGB, YIQ, CMY, HSV - Animations - General Computer Animation, Raster, Keyframe - Graphics programming using OPENGL - Basic graphics primitives - Drawing three-dimensional objects - Drawing three-dimensional scenes UNIT-IV: Rendering Introduction to Shading models - Flat and Smooth shading - Adding texture to faces - Adding shadows of objects - Building a camera in a program - Creating shaded objects- Rendering texture - Drawing Shadows. UNIT-V: Fractals, Fractals and Self-similarity - Peano curves - Creating the image by iterated functions - Mandelbrot sets - Julia Sets - Random Fractals UNIT-VI: Overview of Ray Tracing Intersecting rays with other primitives - Adding Surface texture - Reflections and Transparency - Boolean operations on Objects. OUTCOMES: • Know and be able to describe the general software architecture of programs that use 3D computer graphics. A vector graphic, such as an .eps file or Adobe Illustrator? Students can easily make use of all these Computer Graphics PDF Notes by downloading them. URL: Author: Abhishek Sharma Check Out Computer Graphics Notes Pdf Free Download. You can Check Computer Graphics of B.Tech Subjects Study Materials and Lecture Notes with Syllabus and Important Questions Below. We provide B.tech Computer Graphics study materials to B.Tech students free of cost and it can download easily and without registration need. Feiner, John F. These notes emphasize the basic principles needed to design, use, and understand computer graphics systems. Rotation about an arbitrary axis in space, reflection through an arbitrary plane, general parallel projection transformation; clipping, viewport clipping, 3D viewing. Curves Curve representation, surfaces, designs, Bezier curves, B-spline curves, end conditions for periodic B-spline curves, rational B-spline curves. The task of producing photo-realistic images is an extremely complex one, but this is a field that is in great demand because of the nearly limitless variety of applications. The field of computer graphics has grown enormously over the past 10-20 years and many software systems have been developed for generating computer graphics of various sorts. This can include systems for producing 3-dimensional models of the scene to be drawn, the rendering software for drawing the images, and the associated user-interface software and hardware. file, is composed of paths, or lines, that are either straight or curved. 3D Transformations Translation, rotation, scaling & other transformations. There are 3 elements of computer graphics: Digital memory buffer TV monitor Display controller Using these 3 elements, we are able to see the output on the screen in form of pixels (picture elements) The main advantages of computer graphics are: The ability of computers to store complex drawings and display them whenever needed was one of the main attraction for using computers in the graphic mode. The use of sound cards to make computers produce sound effect led to other uses of graphics. The availability of easily interactive devices made it possible to build simulators. Vector graphics are composed of paths. Date: 16th May 2022 In these "Computer Graphics Notes PDF", you will introduce fundamental concepts of Computer Graphics with a focus on modeling, rendering, and interaction aspects of computer graphics. Topics in our Computer Graphics Notes PDF The topics we will cover in these Computer Graphics Notes PDF will be taken from the following list: Introduction to Computer Graphics & Graphics Systems Overview of computer graphics, storage tube graphics display, Raster scan display. The main uses of computer graphics are: Cartography Visualization of measurement data (2D and 3D) Visualization of computer simulations medical diagnostics Drafting and computer design Preparation of publications Special effects in movies Computer games The difference between vector and raster graphics is that raster graphics are composed of pixels, while vector graphics are composed of paths. Points & lines, Line drawing algorithms, DDA algorithm, Bresenham's line algorithm, Circle generation algorithm, Ellipse generating algorithm, scan line polygon, fill algorithm, boundary fill algorithm, flood fill algorithm. 2D Transformation Basic transformations: translation, rotation, scaling, Matrix representations & homogeneous coordinates, transformations between coordinate systems, reflection shear, Transformation of points, lines, parallel lines, intersecting lines. The task of producing photo-realistic images is an extremely complex one, but this is a field that is in great demand because of the nearly limitless variety of applications. From the following B.tech Computer Graphics Notes (PDF) you can get the complete Study Material (SLM) in Single Download Link. Also, Read The following links for More Information: Computer Graphics Notes Pdf Computer Graphics. Computer graphics is concerned with producing images and animations (or sequences of images) using a computer. Color & shading models Light & color model, interpolative shading model, Flat shading, Phong shading, Gouraud shading, Lambert lighting model, Phong lighting model, Blinn-Phong lighting model, Texture. • Know and be able to discuss hardware system architecture for computer graphics. A raster graphic, such as a gif or jpeg, is an array of pixels of various colors, which together form an image. 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This includes classification, properties, and biological importance of biomolecules. It will introduce the students the concept of genetic code and concept of heredity. The key emphasis is placed on understanding the basic principles that govern the biological functions of biomolecules. The course provides an overview of drug-receptor interaction and Structure-Activity Relation (SAR) studies. Hidden surface Detection Depth comparison, Z-buffer algorithm. Backface detection, BSP tree method, the Printer's algorithm, scan-line algorithm, Hidden line elimination, wireframe methods. Foley, Andries Van Dam, Steven K. This can include systems for producing 3-dimensional models of the scene to be drawn, the rendering software for drawing the images, and the associated user-interface software and hardware. Computer Graphics Notes Pdf Free Download Computer Graphics pdf books Download Computer Graphics notes ppt Download Computer Graphics notes for b.tech CSE Download Computer Graphics Question Paper pdf Download Computer Graphics notes pdf for CSE Download List of Computer Graphics Reference Books- 2nd Year Donald Hearn, Pauline Baker, Computer Graphics - C Version, second edition, Pearson Education, 2004. F.S. Hill, Computer Graphics using OPENGL, Second edition, Pearson Education, 2003. James D. There are 2 types of computer graphics: Raster/Bitmap image uses a grid of individual pixels where each pixel can be a different color or shade. Computer Science Notes In these "Analytical Clinical Biochemistry Handwritten Notes pdf", we will study the biochemically significant features of the proteins, enzymes, nucleic acids, and lipids, using suitable examples. This includes the hardware and software systems used to make these images. Viewing Viewing pipeline, Window to viewport coordinate transformation, clipping operations, point clipping, line clipping, clipping circles, polygons & ellipse. • Know and be able to select among models for lighting/shading: Color, ambient light; distant and light with sources; Phong reflection model; and shading (flat, smooth, Gouraud, Phong). Bitmaps are composed of pixels. Vector graphics use mathematical relationships between points and the paths connecting them to describe an image. This includes, but is not limited to: graphics pipeline, frame buffers, and graphic accelerators /co-processors. We have provided multiple complete Computer Graphics Handwritten Notes PDF for any university student of BCA, MCA, B.Sc, B.Tech CSE, M.Tech branch to enhance more knowledge about the subject and to score better marks in the exam.

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